MMS Website
User Manual

Version: 1.0

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Section 0
INTRODUCTION

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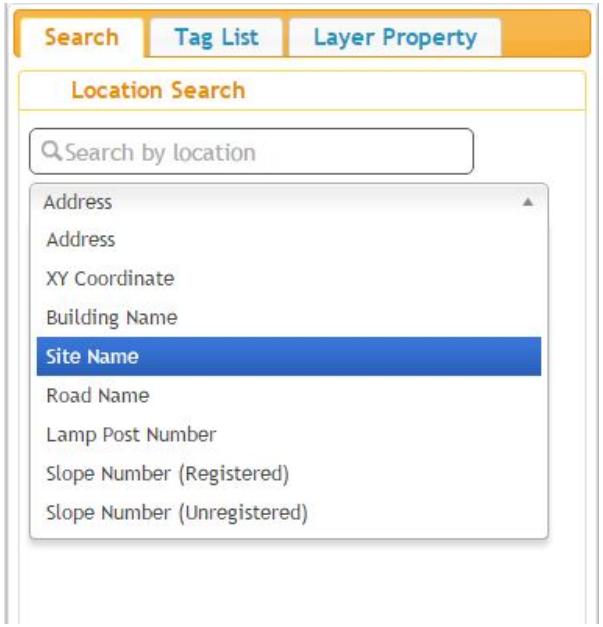
Section 1
LEFT TOOLBAR – SEARCH TAB

Location Search

- Address
- XY Coordinate
- Building Name
- Site Name
- Road Name
- Lamp Post Number
- Slope Number (Registered)
- Slope Number (Unregistered)



ArcGIS Feature Layer Search

Output of Location Search

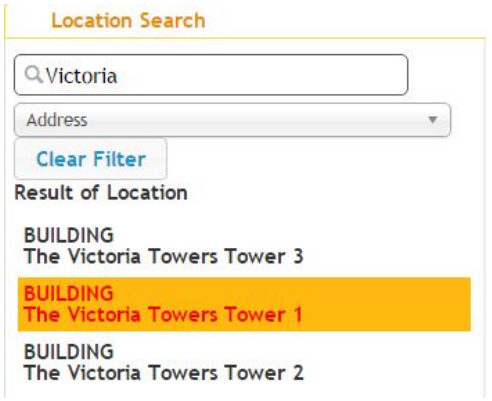
- A list of locations
- Output format : depending on the search type
  - Describe later in details

- Once CLICK, a map window will be centered at the corresponding location. If DOUBLE-CLICK, a map window would also scale to 1:1000.
  - In addition, the geometry that represents the location will also be drawn at the map window, and be deleted once the map window is altered.
  - Nothing will be changed in a movie window.

Address Search

- Input
  - Free text representing an address in HK.
  - English or Chinese text
  - Press Enter or Search button to perform search.

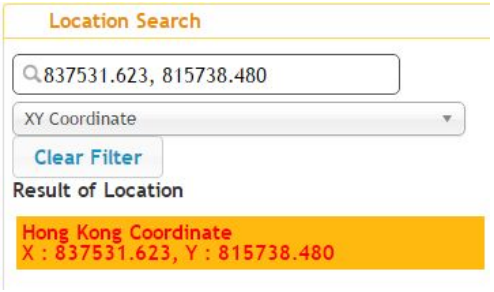
- Output
  - Display in the language according to the input language.
    - English if input were mixed.
  - A list containing all the results
    - 1st line : Type of the location. Either BUILDING of SITE.
    - 2nd line : Name of the location.



XY Coordinate

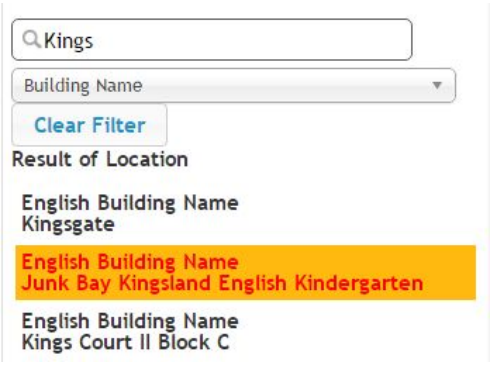
- Input
  - Text representing a Hong Kong coordinate system
  - Format 1: “number(HKG_X), number(HKG_Y)”
    - e.g. “837531.623, 815738.480”
  - Format 2: “number(HKG_X) number(HKG_Y)”
    - e.g. “837531.623 815738.480”

- Output
  - A list containing one result.



ArcGIS Feature Layer Search

- Input
  - Text representing a field of the layer to be searched
    - For a naming (building, site, road), both English and Chinese can be used.
- Output
  - For bilingual case, language of the output depends on the language of the input.
  - A list containing all the results
    - 1st line : Name of the field containing the search text.
    - 2nd line : Value of the field.



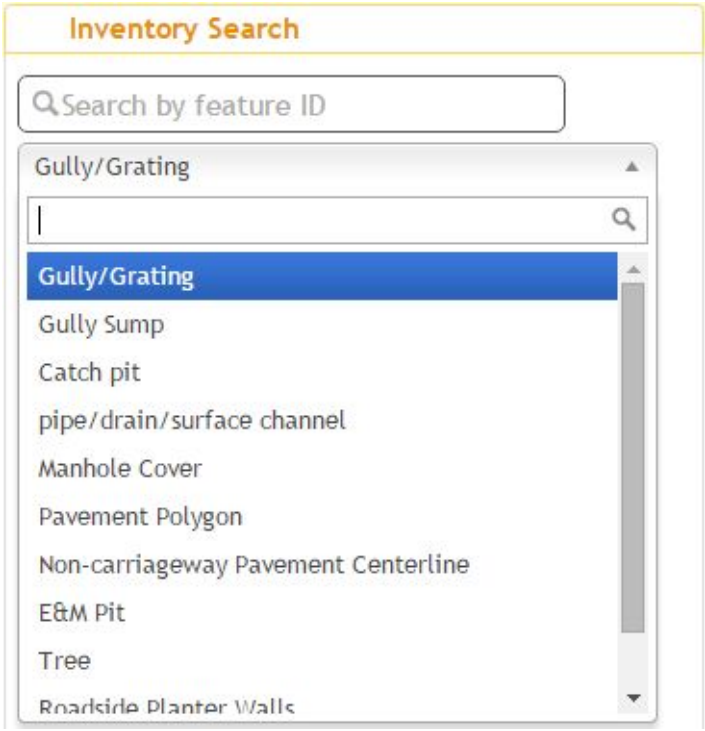
ArcGIS Feature Layer Searching Fields

Search Item	Searching Fields
Building Name	ENGLISHBUILDINGNAME, CHINESEBUILDINGNAME
Site Name	ENGLISHNAME, CHINESENAME
Road Name	ENGLISHROADNAME, CHINESEROADNAME
Lamp Post Number	LAMP_NO
Slope Number (Registered)	SLOPE_NO
Slope Number (Unregistered)	HYD_NO

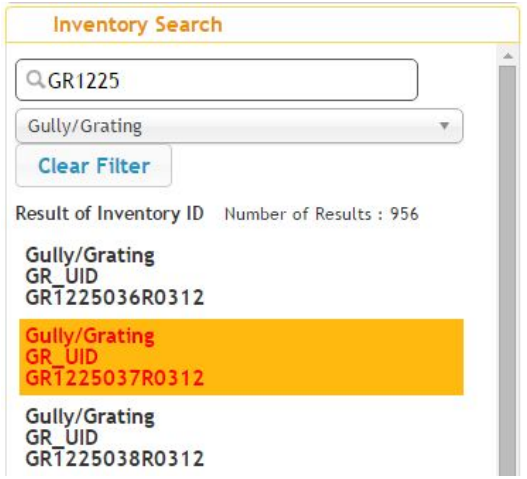
Inventory Search

- Specify an inventory layer to be searched.
  - Only one layer is allowed

- Input :
  - Text string representing FID of the layer.
    - OBJECT_ID or UID



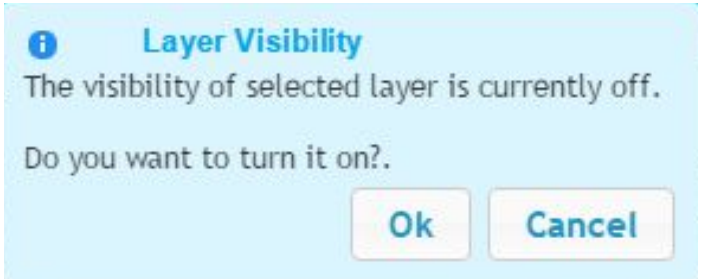
Output of Inventory Search



- List of inventories that matched with the input string.
- Output format for each inventory:
  - 1st line : Name of the field containing the search text.
  - 2nd line : Name of the field.
  - 3rd line : Value of the field.
- Click on the record
  - If the inventory is existed in both movie/map windows (in the range), it will be selected.
- Double-click on the record
  - Same behavior as click, but if the inventory doesn't existed:
    - Movie windows will jump to the nearest location, and try to select the inventory.
    - Map windows will move it center to the inventory's location, and select it.

Layer Visibility Notification

- When users select the inventory/tag in the result list, and the layer visibility is off, there will be a notification asking whether user would like to turn it on or not.



- User must answer this confirmation before the map/movie window will jump to the selected inventory/tag.

Inventory Layer Searching Fields

Layer Name	Searching Fields
Gully/Grating	OBJECTID, GR_UID
Gully Sump	OBJECTID, GS_UID
Catch Pit	OBJECTID, CP_UID
Pip/Drain/Surface Channel	OBJECTID, PP_UID
Manhole Cover	OBJECTID, MC_UID
Pavement Polygon	OBJECTID, PG_UID
Non-carriageway Pavement Centerline	OBJECTID, PL_UID
E&M Pit	OBJECTID, EM_UID
Tree	OBJECTID, TR_UID
Roadside Planter Walls	OBJECTID, PW_UID
Slope Planter Wall	OBJECTID, SW_UID

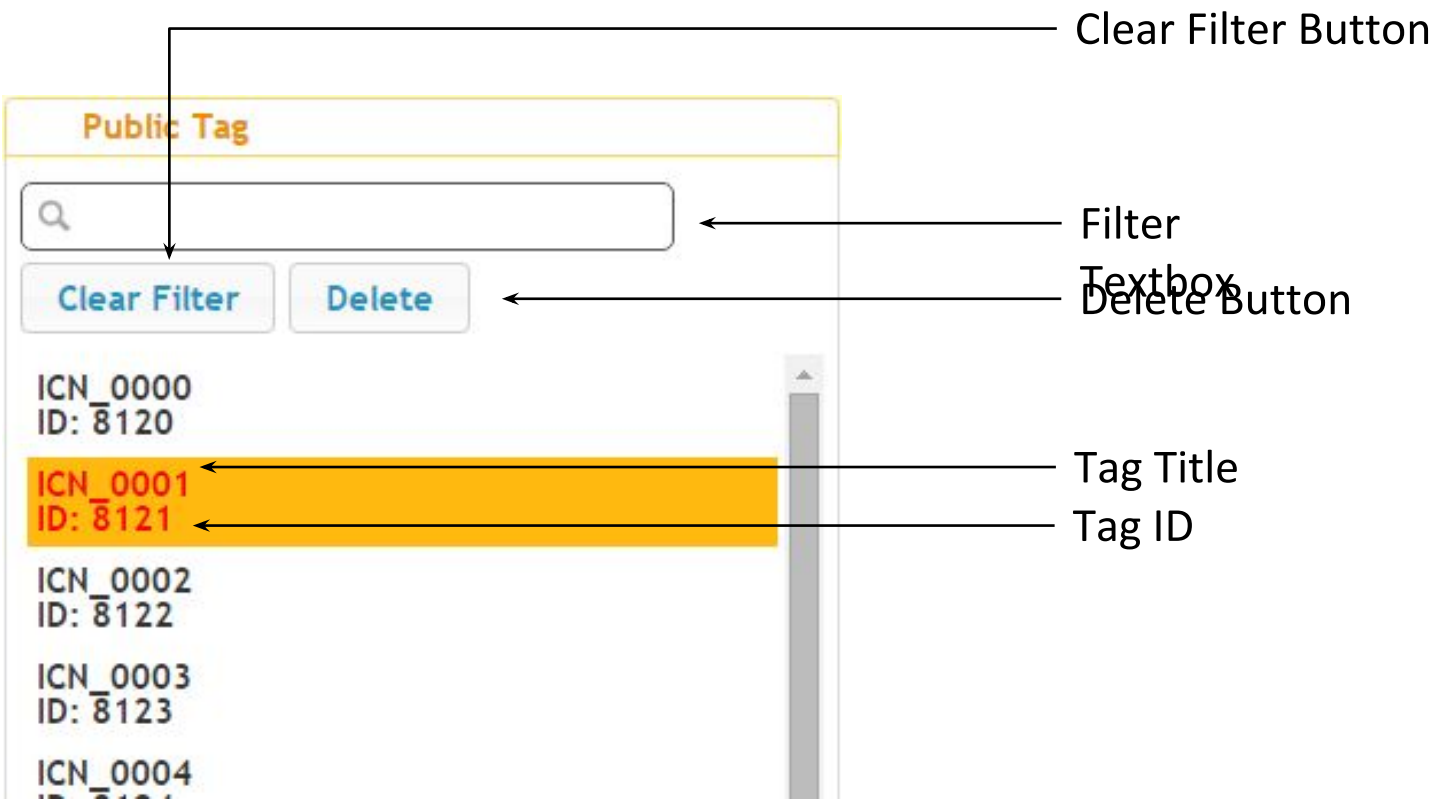
Section 2
LEFT TOOLBAR – TAG LIST TAB

Public Tag

- The geo-reference tags which are common to all users that use the same system.
  - Once a new tag is registered to a system, it should be seen by other once refreshed.
- All public tags are listed by default, 20 tags per page.
- Users can select tag one at a time
  - Either by click or double-click.
  - Once tag is selected, it will not receive any event (click or double-click again).
  - Users may delete the tag, once it is selected by clicking on the delete button.
  - When the tag is selected, Layer Visiblilty Notification also applied.

*Please refer to "Tag Selection Synchronization" section for more details behavior when clicking at the tag.

Public Tag List



Public Tag Filter

- Enter a text in the filter textbox to search for a text to be displayed.
- Search criteria can be specified as syntax below :

Criteria	Format	Behavior	Example
Tag ID	id:`integer`	Exact search	id:8121
Tag Title	title:`string`	Contain, Case sensitive	title:park, title:”hong kong”
Tag Remark	remark:`string`	Contain, Case sensitive	remark:”mms”

- Multiple criteria will be combined with AND operator.
- Entering text without criteria identifier will search all criteria with OR operator
  - E.g. “free text” → title:”free text” OR remark:”free text”
  - E.g. 58 → title:58 OR remark:58 OR id:58
- Clear filter will clear all criteria and show all public tags in the list.

Private Tag

- The geo-reference private tags is stored locally for each browser session.
  - All of the registered private tags will be gone, once the browser refreshed.
- Try to click and double-click on the tag whether it is selected accordingly.
  - When the tag is selected, Layer Visiblilty Notifaction also applied.
  - Behavior of other windows will be listed separately.
- Private tag can be
  - Imported; using [import] button.
  - Exported; using [export] button.
  - Deleted; using [delete] button.
- The export format of the tag is in XML format.

Section 3
LEFT TOOLBAR – LAYER PROPERTY TAB

Layer Visibility & Map Scale

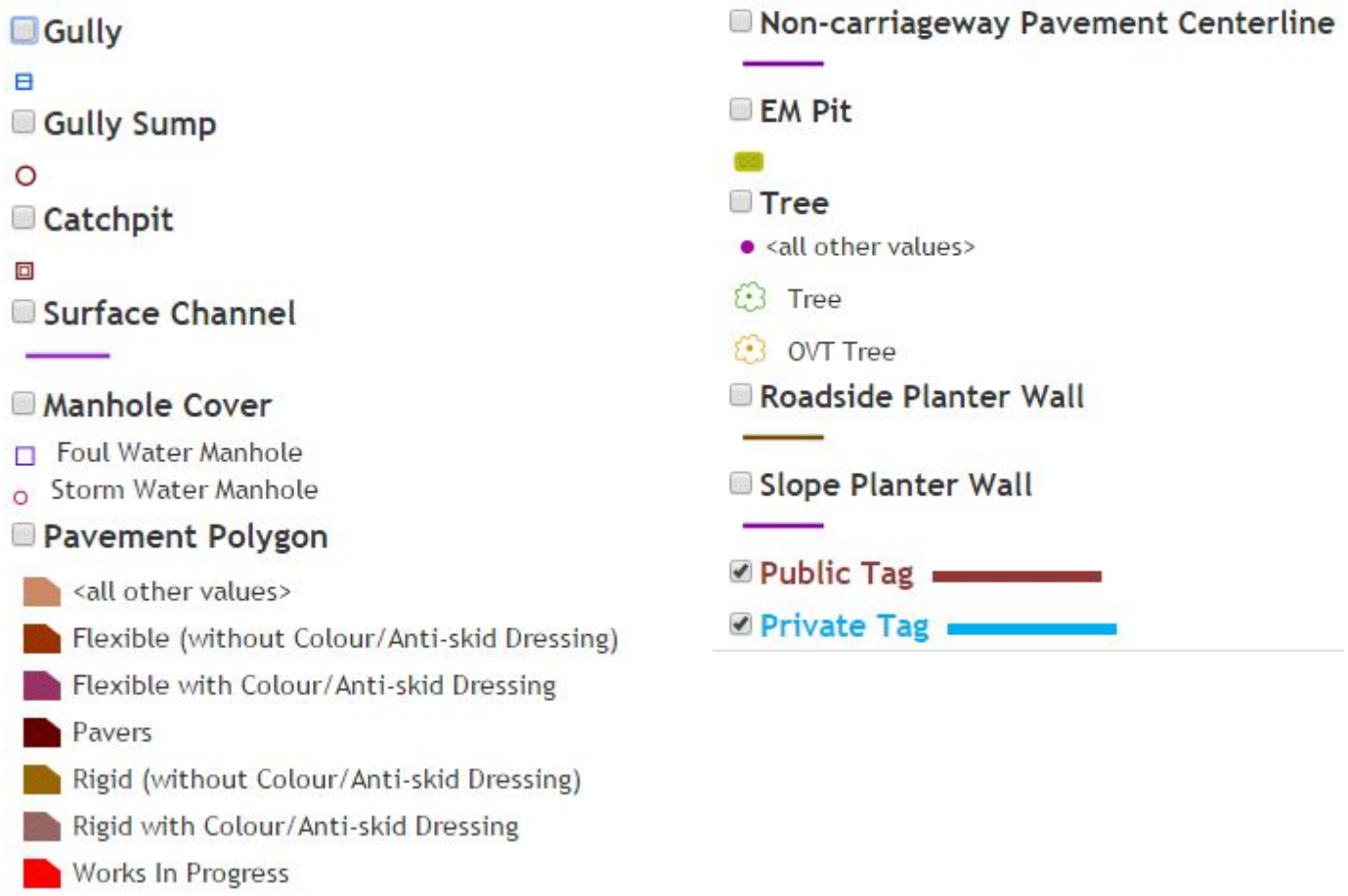
- Inventory layer and MMS layer is set to be shown on the map window only when the scale of the map is more than 1:5000.
    - This is regardless of the layer visibility value in the property tab.

Road Inventory Layers

- This toolbar is used to modify the visibility/range of each inventory layer.

- Range is divided into two parts:
  - Movie Windows: distance from a CAMERA center.
  - Map Windows: distance from a MAP center.

Road Inventory Layer Symbol



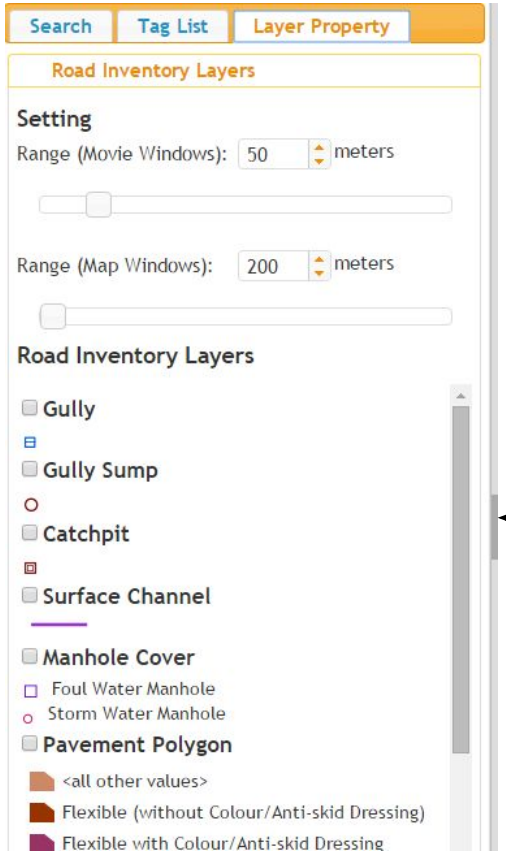
MMS Layers

- This toolbar is used to modify the visibility of MMS layer (a camera trajectory).

- Movie Windows: show all in the fix range (500).
- Map Windows: show all in the map extent.

Visibility of Left Tab

- Tab on the left can be show/hide by clicking the minimizing/maximizing button.

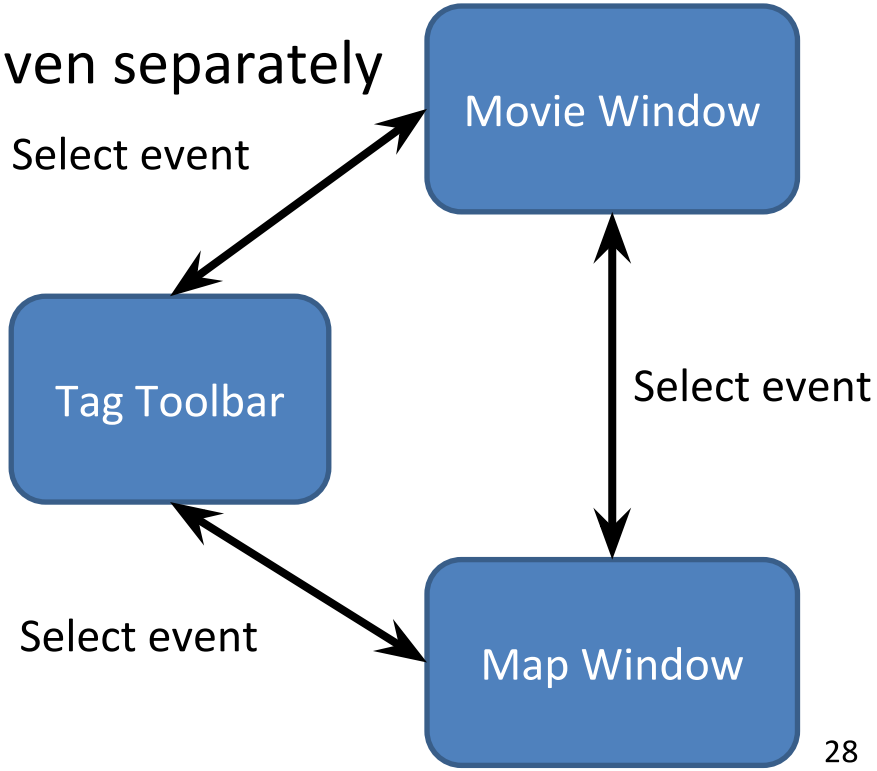


Minimizing/maximizing button

Section 4
TAG (incl. Inventory) SELECTION SYNCHRONIZATION

Tag Synchronization

- Two type of events occurs between 3 modules when tag is selected.
  - Event-A
  - Event-B
- Explaination of each module is given separately
  - Output : when event is sent.
  - Input : when event is received.



Tag Toolbar
[Output]

- Tag in the list (inventory search, public tag, private tag) can be selected. User can either
  - Click
  - Double-click

- The module will be sent out to the event accordingly.
  - Click → Event-B
  - Double-click → Event-A

Tag Toolbar
[Input]

- Behavior of the Tag Toolbar (inventory search, public tag, private tag) when there is an event
  - Event-B
    - If the tag is shown in the list (current page), it will be selected.
  - Event-A
    - If the tag is shown in the list (current page), it will be selected. Otherwise, it will search for the tag, and select it.

Movie Window
[Output]

- Tag in movie window can ONLY be clicked.
  - Movie window will not respond to double-click.

- The module will sent out Event-A when a tag is clicked.
  - In other words, movie window can only sent out Event-A.

Movie Window
[Input]

- Behavior of the movie window when there is an event
  - Event-B
    - If the tag is shown in the window, it will be selected.
  - Event-A
    - If the tag is shown in the window, it will be selected. Otherwise, it will jump to the location closest to the tag, and perform the selection again.
  - Please note that, when the tag is not within the range of movie window, it will not be selected.

Map Window
[Output]

- Tag in map window can be selected. User can either
  - Click
  - Double-click

- The module will sent out the event accordingly.
  - Click → Event-B
  - Double-click → Event-A

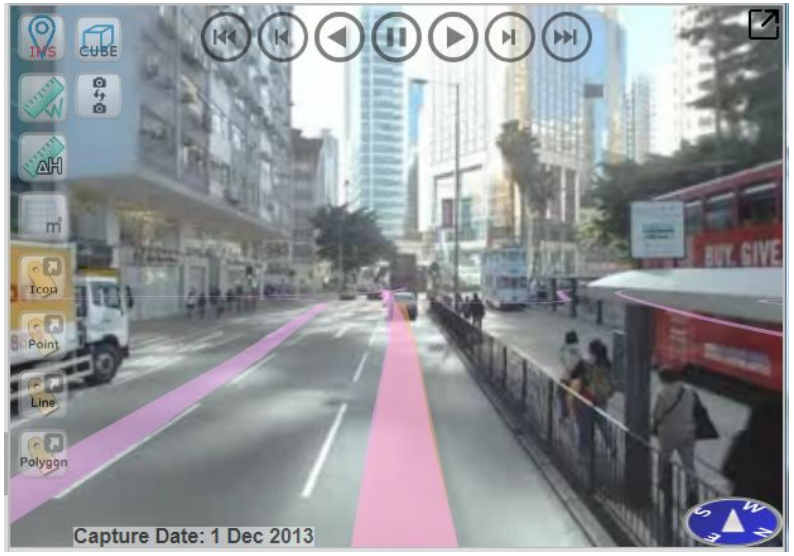
Map Window
[Input]

- Behavior of the map window when there is an event
  - Event-B
    - If the tag is shown in the window, it will be selected.
  - Event-A
    - If the tag is shown in the window, it will be selected. Otherwise, it will change it extent to be centerred at the tag location, and perform the selection again.
  - Please note that, when the tag is not within the range of map window, it will not be selected.

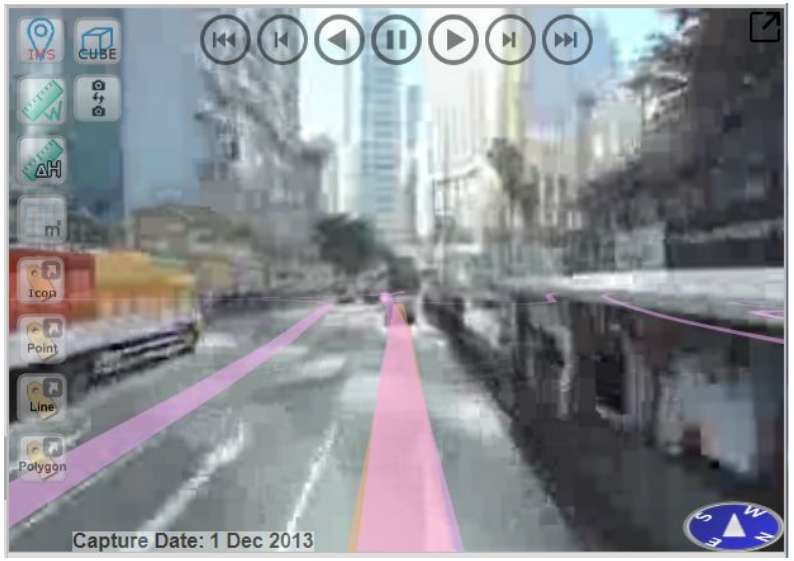
Section 5
MENU SETTING

Video : Resolution

- Hight Resolution



- Low Resolution



*The configuration can be changed by accessing [Video ->Resolution]

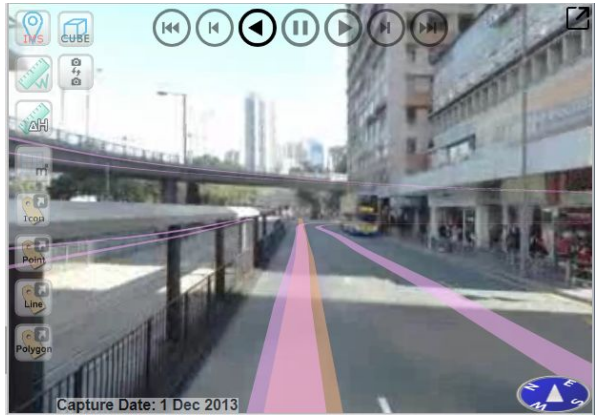
Video : View

- There are two types of video view
  - Front/Rear View
  - 360° View

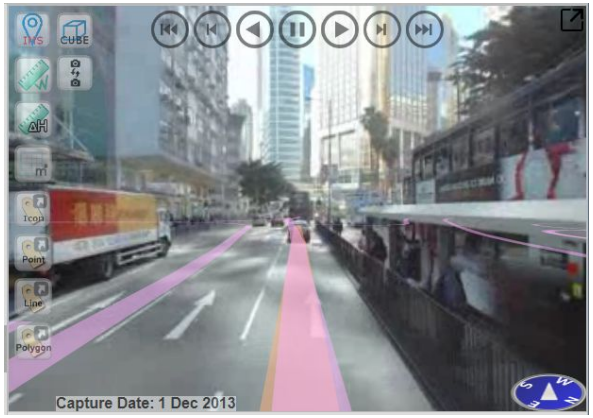
- Front/Rear view will show only in the same/opposite direction of the shootng. However, with 360° view, user can see and navigate around the video by dragging the mouse within the movie window.
  - 360° view will provide less resolution image.

Video : View

- Front/Rear View



Rear view



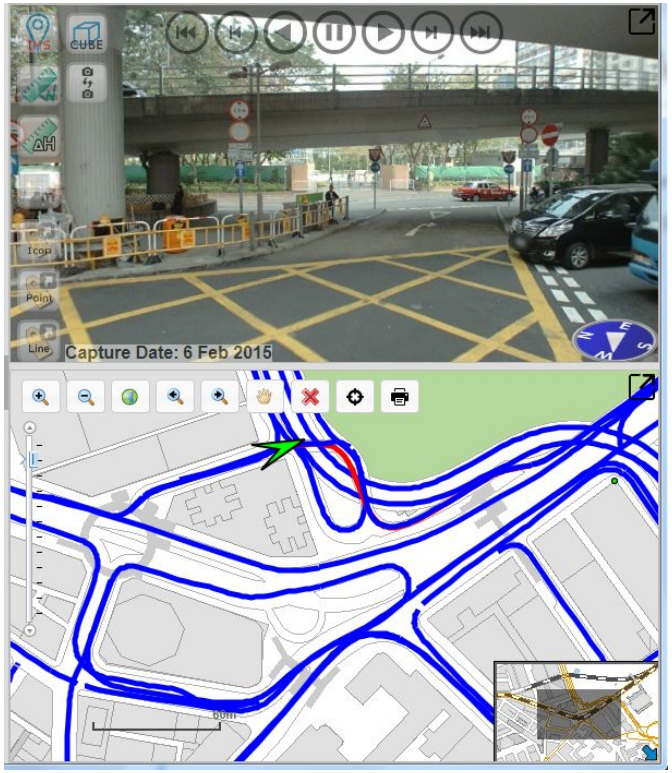
Front view

- 360° View

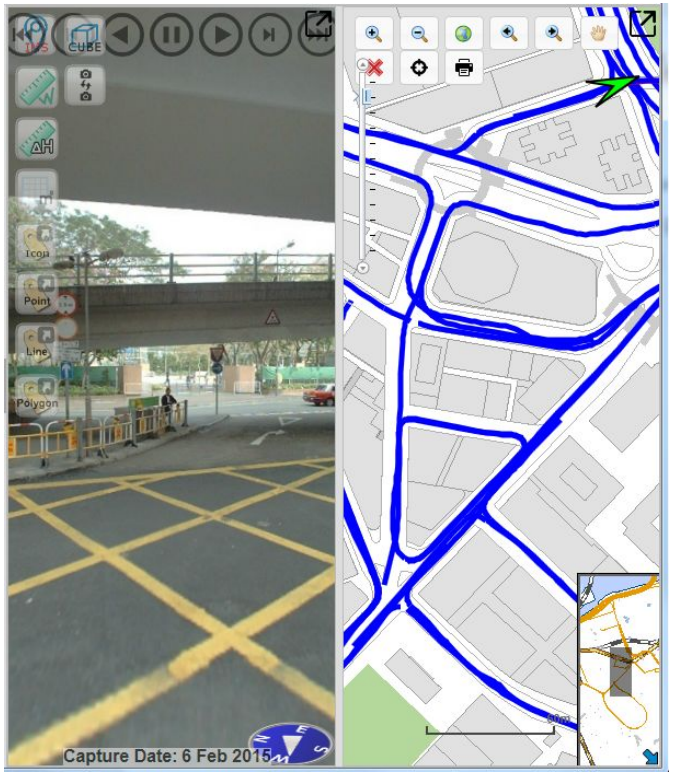
Random other direction view

View Layout

- Landscape: Change movie-map window to landscape layout
- Portrait: Change movie-map window to portrait layout
- Switch: Switch movie-map window layout



Landscape layout



Protrait layout

View Layout

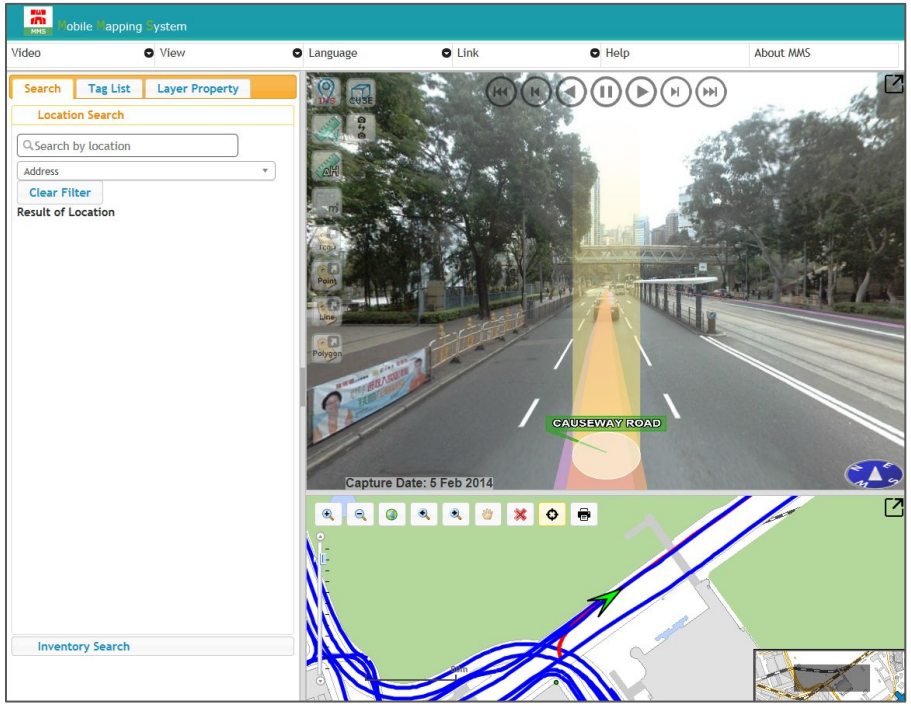
- Table below show the result when you
  - started with **[Initial State]**
  - perform the action stated with **{Action}**

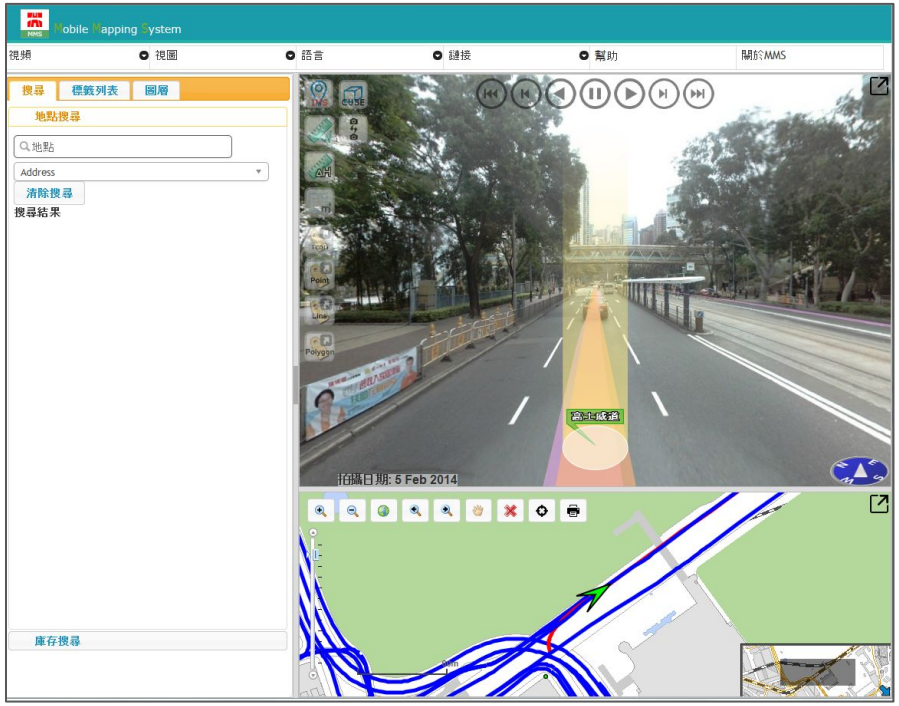
[Initial State]	RESULT when Choose the Following {Action} in the Menu from the [Initial State].		
	{Landscape}	{Portrait}	{Switch}
Movie-Up Map-Down	UNCHANGED	Movie-Left Map-Right	Movie-Down Map-Up
Movie-Down Map-Up	UNCHANGED	Movie-Left Map-Right	Movie-Up Map-Down
Movie-Left Map-Right	Movie-Up Map-Down	UNCHANGED	Movie-Right Map-Left
Movie-Right Map-Left	Movie-Up Map-Down	UNCHANGED	Movie-Left Map-Right

(e.g. Movie-Up means movie window is up to the map window)

Language

- English
  - Change website menu to English
- Chinese
  - Change website menu to Chinese





Link and Help

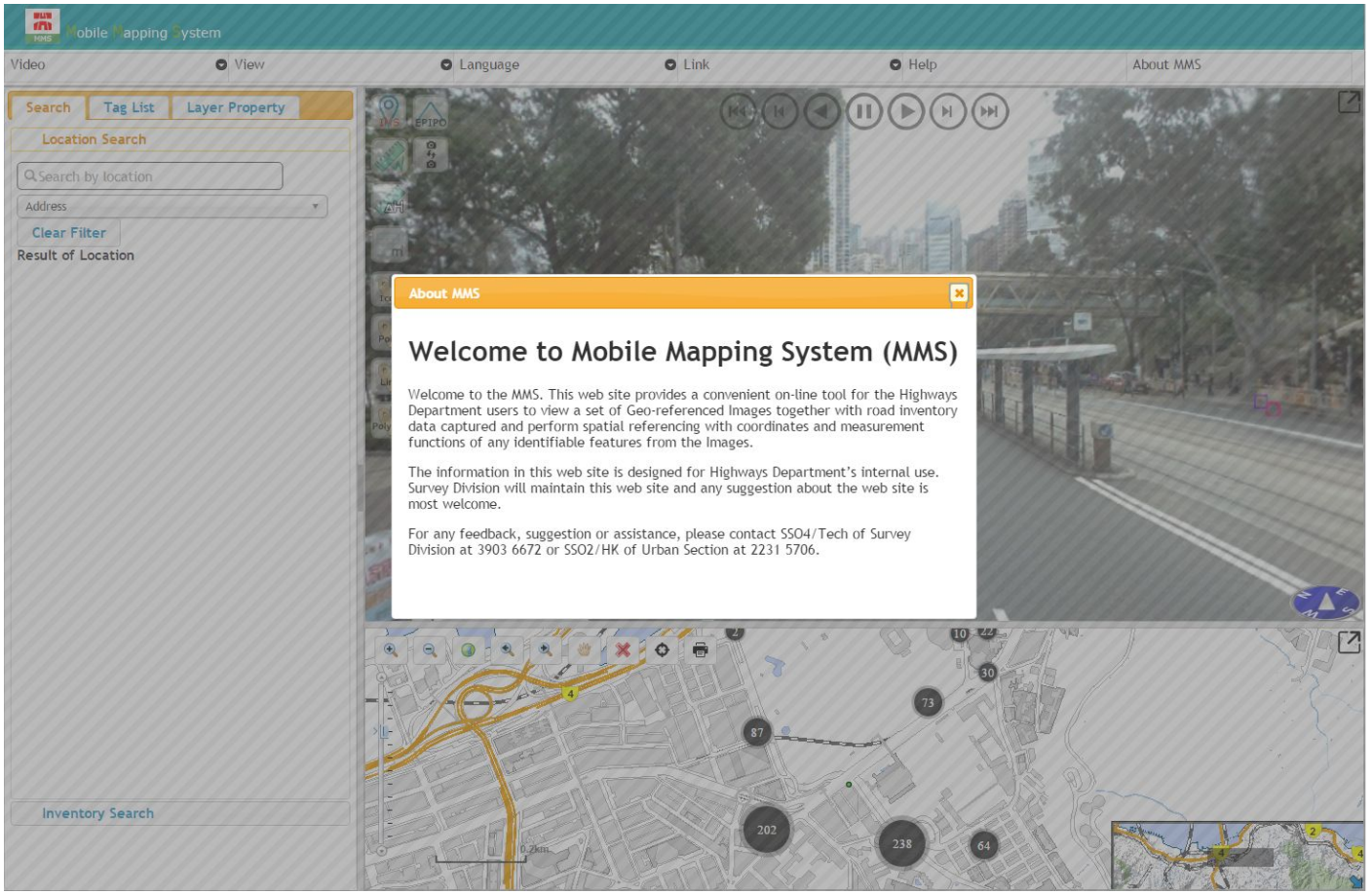
- Link
  - Slope Maintenance Responsibility Information System
    - Link to “http://www2.slope.landsd.gov.hk/”
  - Slope Information System - CEDD
    - Link to “http://hkss.cedd.gov.hk/hkss/eng/sis_map.aspx”
  - e-Statutory Plans (Town Planning Board Homepage)
    - Link to “http://www2.ozp.tpb.gov.hk/gos/default.aspx”
  - Geospatial Information Hub (GIH 2.0)
    - Link to “http://gih.landsd.ccgo.hksarg/gih-hksar/view/HGH.jsp”
  - GeoInfo Map
    - Link to “http://www2.map.gov.hk/gih3/view/index.jsp”
  - IMS
    - Link to “http://ims.hyd/ims/”

Help

- Providing an user manual to this website.

About MMS

- Providing information regarding this project.


Mobile Mapping System
Video
View
Language
Link
Help
About MMS
Search
Tag List
Layer Property
Location Search
Search by location
Address
Clear Filter
Result of Location
Inventory Search
About MMS
Welcome to Mobile Mapping System (MMS)
Welcome to the MMS. This web site provides a convenient on-line tool for the Highways Department users to view a set of Geo-referenced Images together with road inventory data captured and perform spatial referencing with coordinates and measurement functions of any identifiable features from the Images.
The information in this web site is designed for Highways Department's internal use. Survey Division will maintain this web site and any suggestion about the web site is most welcome.
For any feedback, suggestion or assistance, please contact SSO4/Tech of Survey Division at 3903 6672 or SSO2/HK of Urban Section at 2231 5706.

Section 6
MOVIE WINDOW

Movie Window

- Screen Widget
  - Play control widget
  - Measurement method widget
  - Measurement type widget
  - Tag register widget
  - Link to IMS widget
  - Camera switch widget
  - Compass widget
- Capture Date
- Max/Min Layout Button
- Tag Property Dialog
- Tag Registeration Dialog
- Tag

Screen Widget

- Play control widget
  1. ⏮ Move back 5 frames.

Initial state

State after moving back 5 frames

Screen Widget

- Play control widget

  2. Move back 1 frame.

Initial state

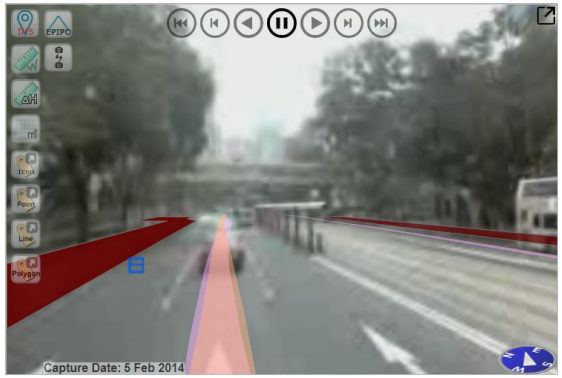
State after moving back 1 frames

Screen Widget

- Play control widget
  3. Reverse play.
  4. Pause.
  5. Play

Reverse playing

Pause video after loading



Playing

Screen Widget

- Play control widget

  6. ⏭ Move forward 1 frame.

Initial state

State after Moving forward 1 frame

Screen Widget

- Play control widget
  7. ⏭ Move forward 5 frames.

Initial state

State after moving forward 5 frames

Screen Widget

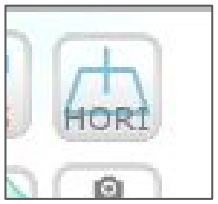
- Measurement method widget: Click to change measurement method.
  -

Epipolar measurement method.
  -

Horizontal measurement method.
  -

Cube measurement method.

Click measurement method widget to enter measurement method selection mode



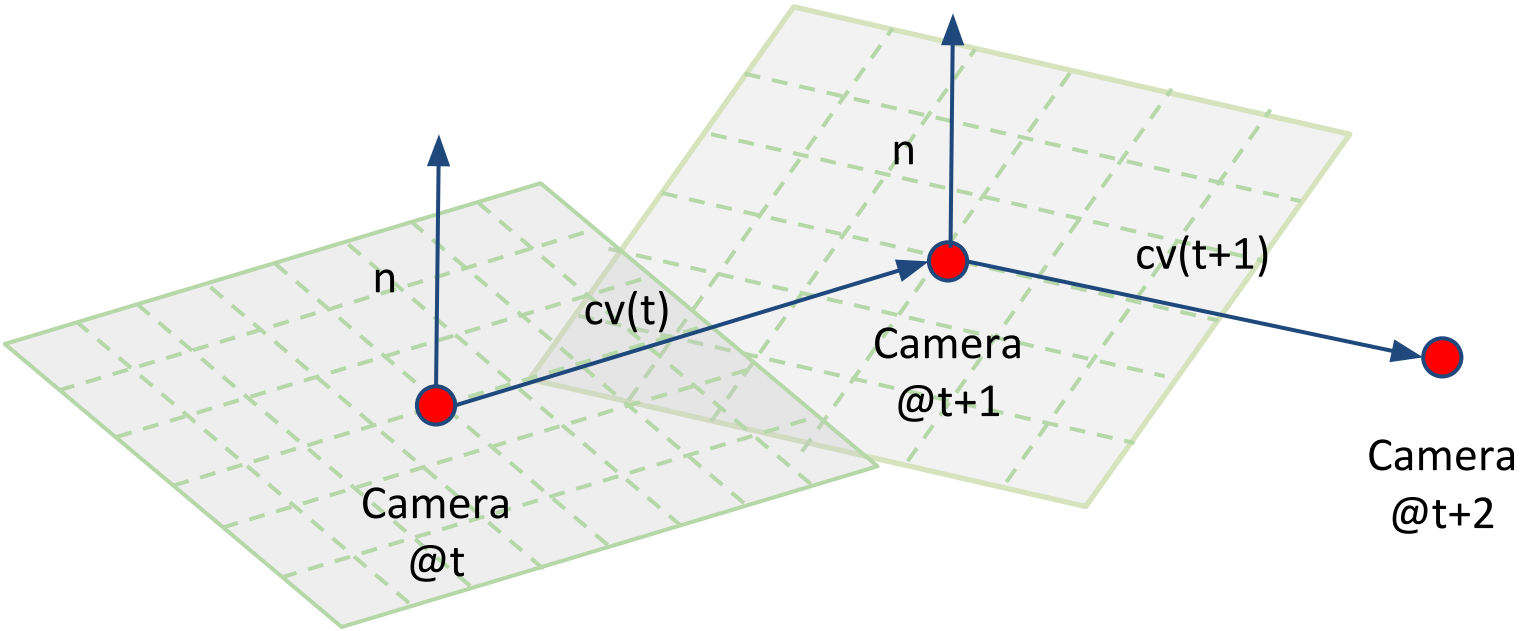
Select a measurement method (e.g. horizontal measurement)

Measurement Methods

1. Horizontal grid
2. Cube grid
3. Epipolar

HORIZONTAL_GRID

From the calculated camera vector, a horizontal plane is created to help user to choose measurement points.

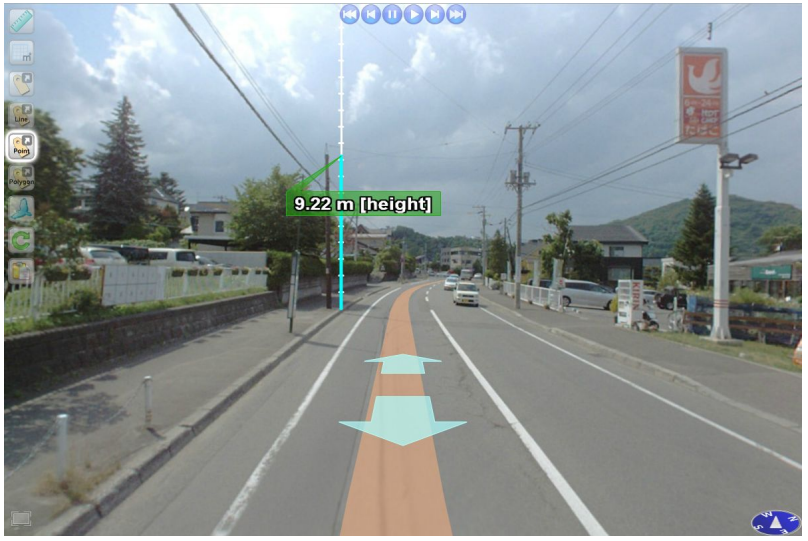


n global vertical axis
cv(i) camera vector

HORIZONTAL_GRID … Steps

1.) Choose a position on the grid.

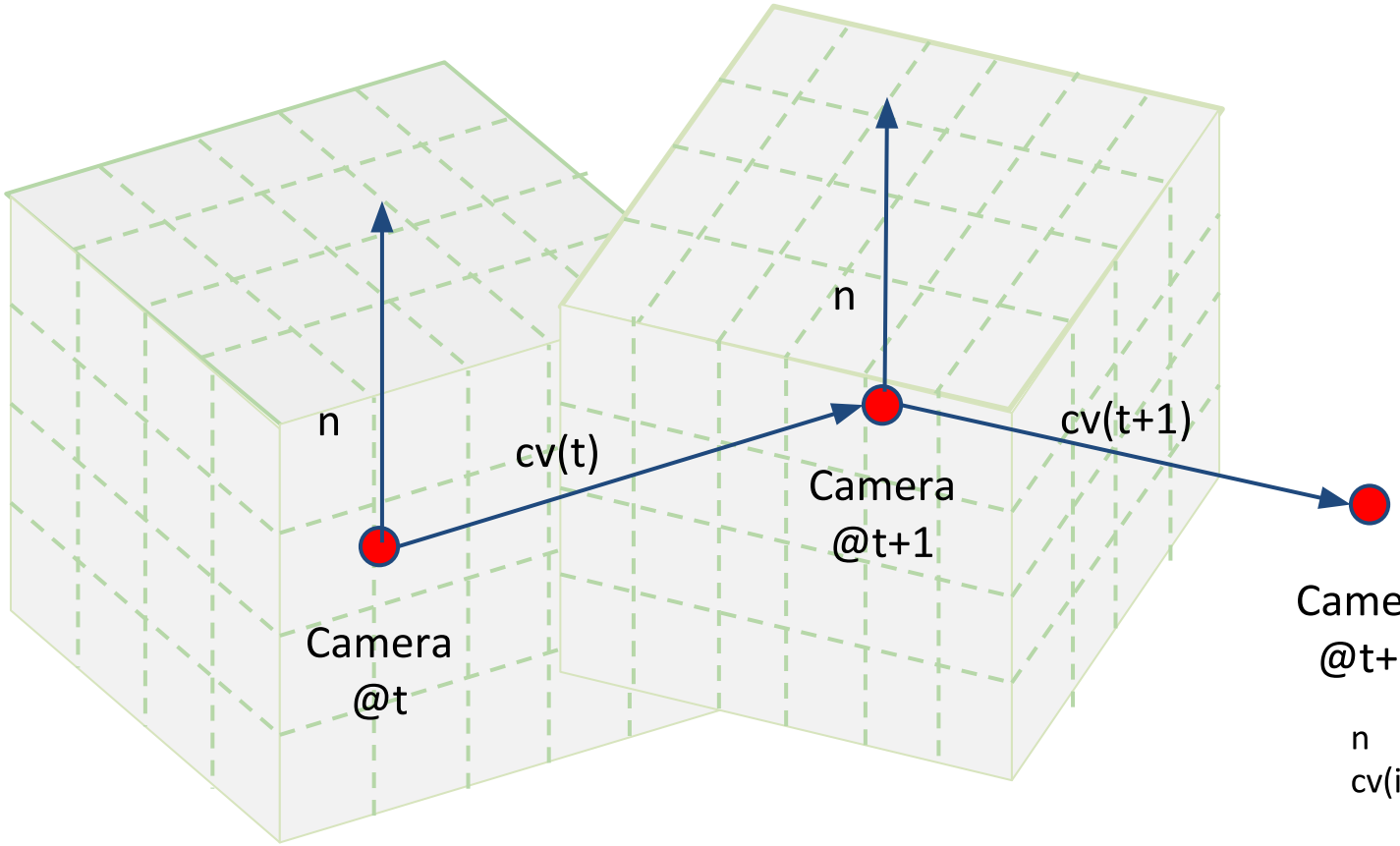
2.) Choose a height.



CUBE_GRID

From the calculated camera vector, a cube grid is created to help user to choose measurement points.

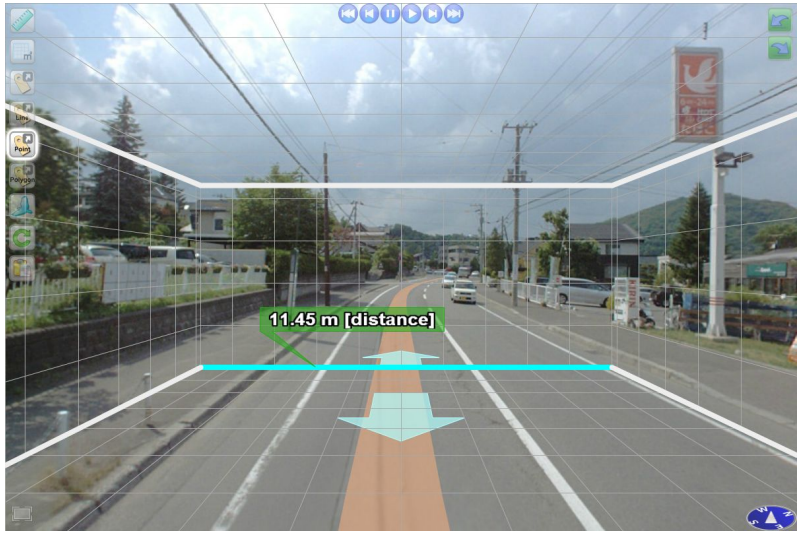
- *Only points on the GRID will be assigned.



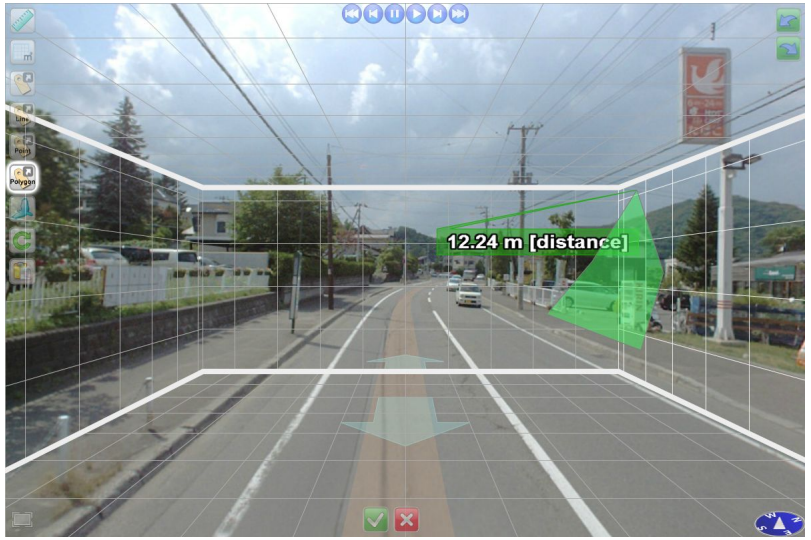
n global vertical axis
cv(i) camera vector

CUBE_GRID … Steps

1.) Change grid's size and orientation

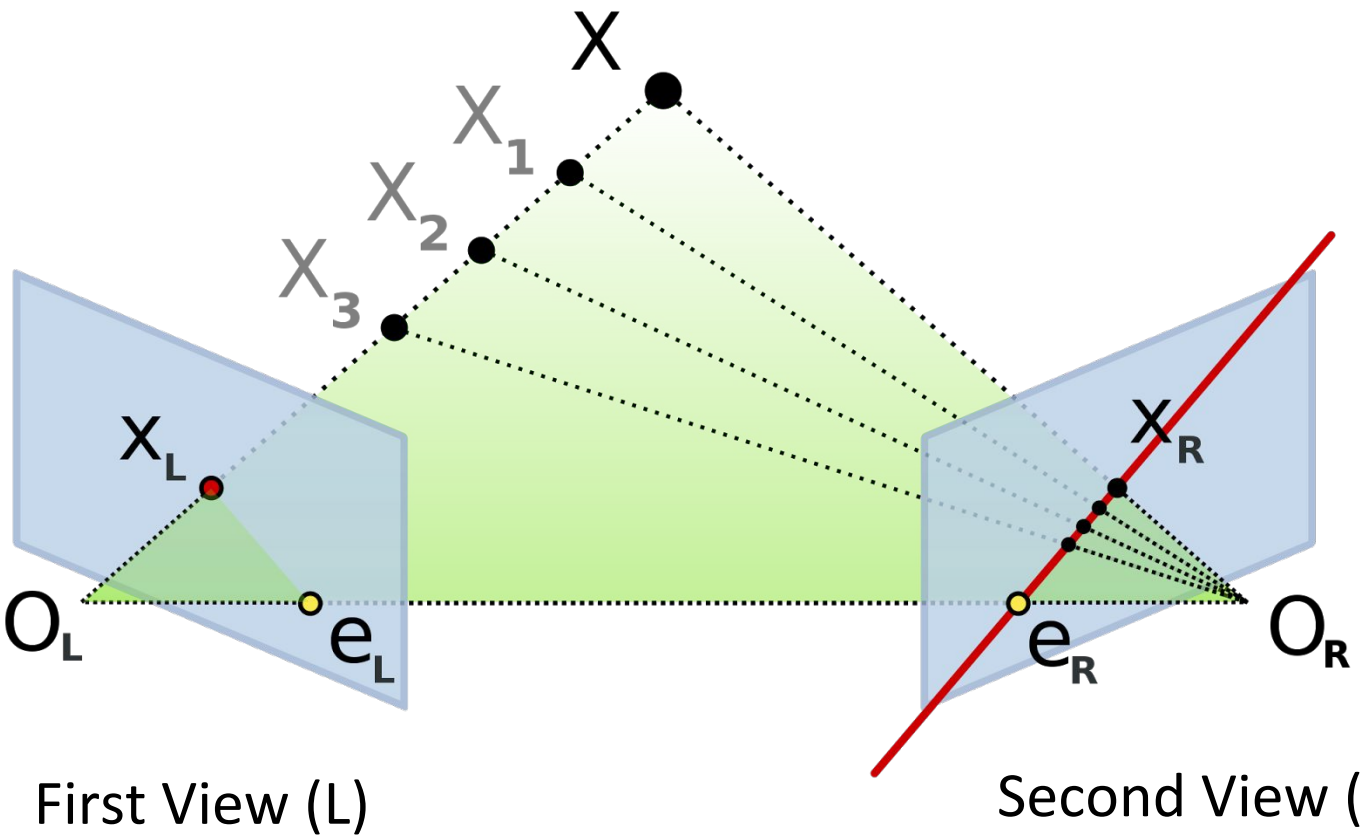


2.) Choose points on the grid.



- Grid can be rotated, parallel to the horizontal plane.
  - Click on top-right buttons.

Epipolar Geometry



[http://en.wikipedia.org/wiki/File:Epipolar_geometry.svg]

EPIPOLAR … Steps

1.) Choose a point in the first image.

2.) Choose its corresponded point on the red line from the second image.

- Once a point is clicked in the first image, a camera view will change automatically to the second view.

Length Measure

- Measure a length of a polyline
  - Enter a mode by clicking at the button
  - Measure 1st point (with any method) → No length shown
  - Measure 2nd point (with any method) → Length from 1st point to 2nd point
  - Measure 3rd point (with any method) → Length from 1st point to 2nd point to 3rd point.
  - And so on …
  - *Keep the previous result and start from the 1st point again by clicking
  - *Clear the previous result and start from the 1st point again by clicking
  - *Clear all results and exit a mode by clicking at the button again.

Height Measure

- Measure a verticle distance (height) between two points.
  - Enter the mode by clicking
  - Measure 1st point → the vertical distance of a point from a groud is shown.
  - Measure 2nd point → the vertical distance between the two points is shown.
  - ...
  - Measure 3rd point → the vertical distance of a point from a ground is shown and so on...
  - *exit a mode by clicking at the button again.

Measure vertical distance of one point from an assumed ground.

Measure vertical distance between the two points

Area Measure

- Measure an area of a polygon (plane)
  - Enter a mode by clicking at the button
  - Measure at least 3 points (with any method), and the measured area will start to be shown.
  - *Keep the previous result and start from the 1st point again by clicking
  - *Clear the previous result and start from the 1st point again by clicking
  - *Clear all results and exit a mode by clicking at the button again.

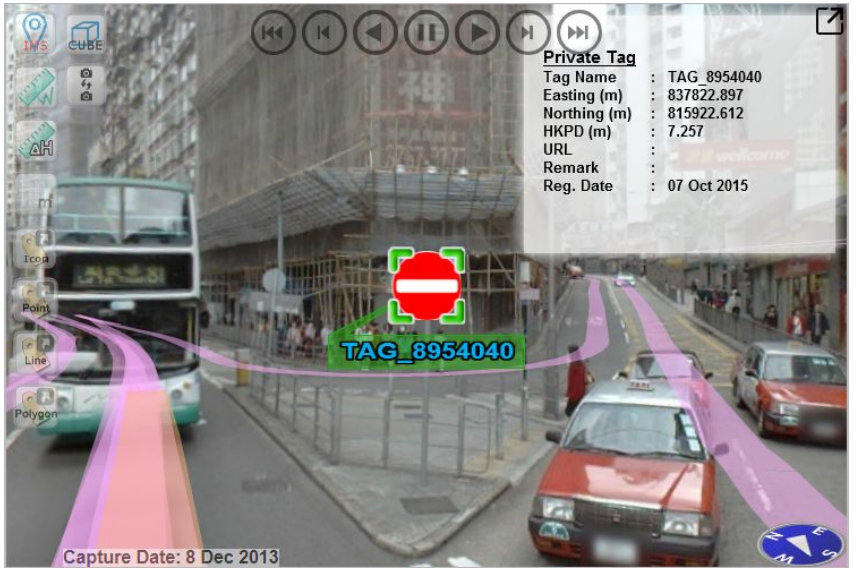
Measure area of a plane

Icon Tag Register

-

Register a icon tag.
  - Measure a point (with any method)
  - Fill out the registration form, and click register.
  - Check the notification whether the icon tag is successfully registered.
- User may click

again, and abort the registration process at any time.



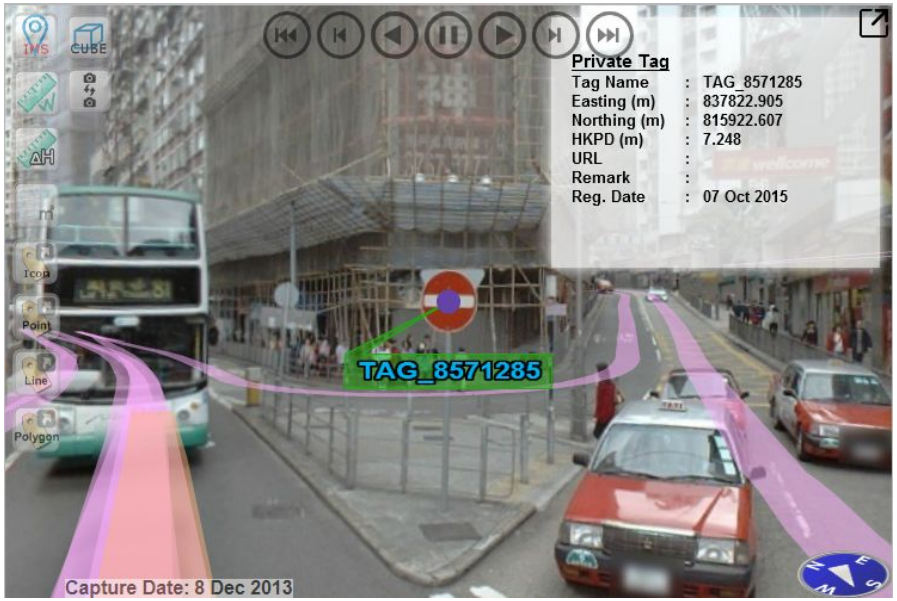
Example of a registered icon tag.

Point Tag Register

-

Register a point tag.
  - Measure a point (with any method)
  - Fill out the registration form, and click register.
  - Check the notification whether the point tag is successfully registered.
- User may click

again, and abort the registration process at any time.



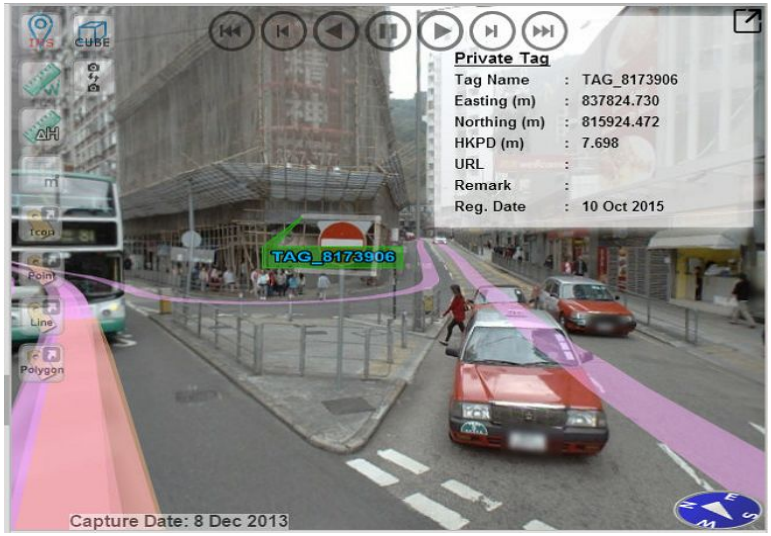
Example of a registered point tag.

Line Tag Register

-

Register a line tag (line/polyline)
  - Measure at least two points (with any method)
  - Click to accept the result and proceed,
    - OR click to clear the line and start measuring again.
  - Fill out the registration form, and click register.
  - Check the notification whether the line tag is successfully registered.
- User may click

again, and abort the registration process at any time.



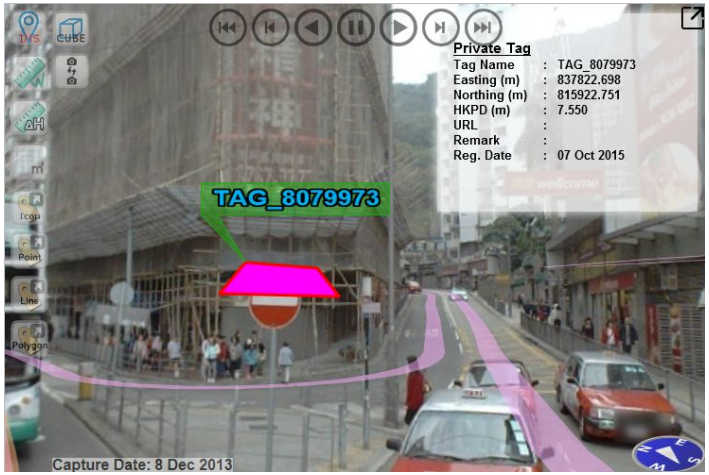
Example of a registered line tag.

Polygon Tag Register

-

Register polygon tag.
  - Measure at least three points (with any method)
  - Click to accept the result and proceed,
    - OR click to clear the line and start measuring again.
  - Fill out the registration form, and click register.
  - Check the notification whether the polygon tag is successfully registered.
- User may click

again, and abort the registration process at any time.



Example of a registered polygon tag.

Link to IMS Widget

- Allow user to open an IMS website with a measured location.
  - Measure a point (with any method)
  - The following dialog will show up.
  - Click on [Click to Jump to IMS] to jump to a IMS website at the measure location.

Click the link “Click to Jump to IMS” to jump to IMS with selected coordinate (“http://ims.hyd/ims_link/?x=837822.9056426064&y=815922.6061738583” in this example)

Screen Widget

- Camera switch widget
  - Click to switch up/down camera.

Up camera

Lower camera at same postion

Screen Widget

- Compass widget
  - Click to point to the forward direction when data were shooting.

Random direction

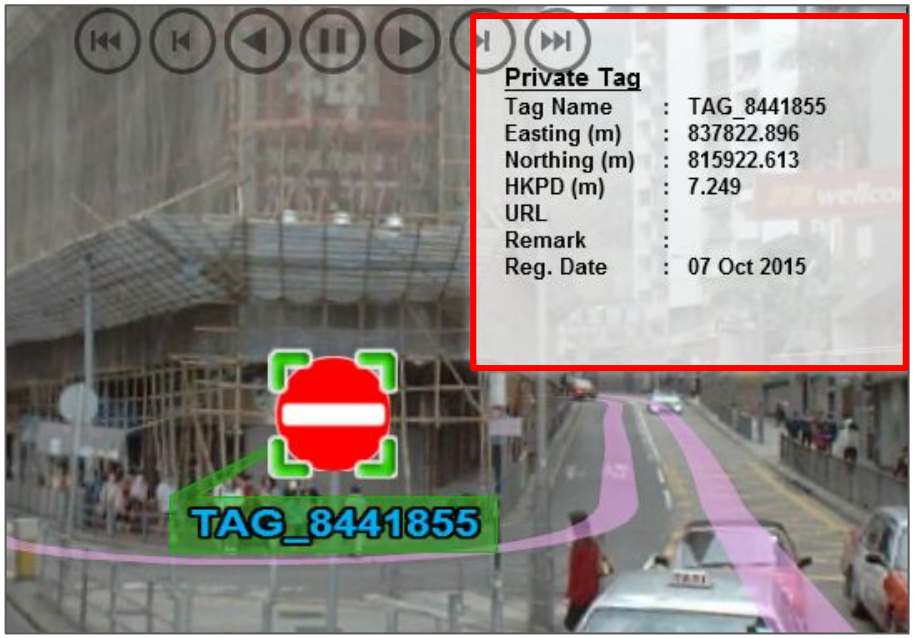
Forward direction

Capture Date

- Show a shooting date of current movie

Tag Property Dialog

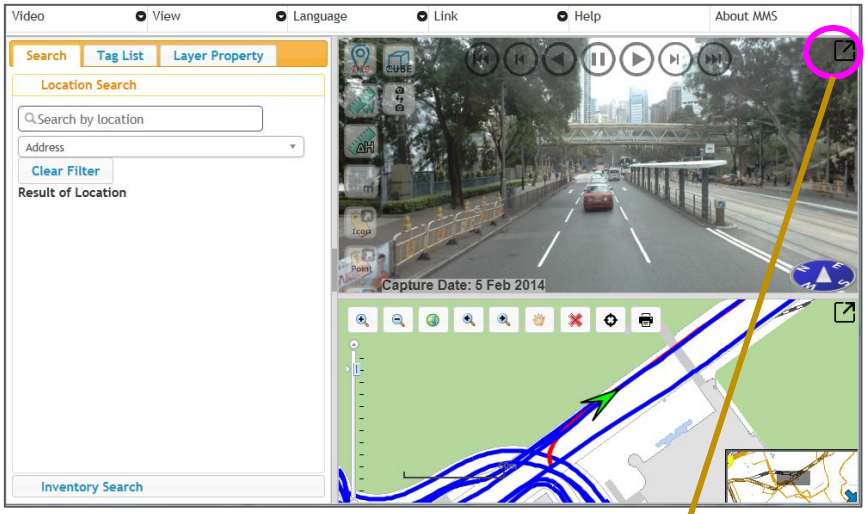
- Click tag to show tag property dialog in the right top of the movie window.
- Tag property dialog shows the tag type(public/private), tag name and other tag properties.



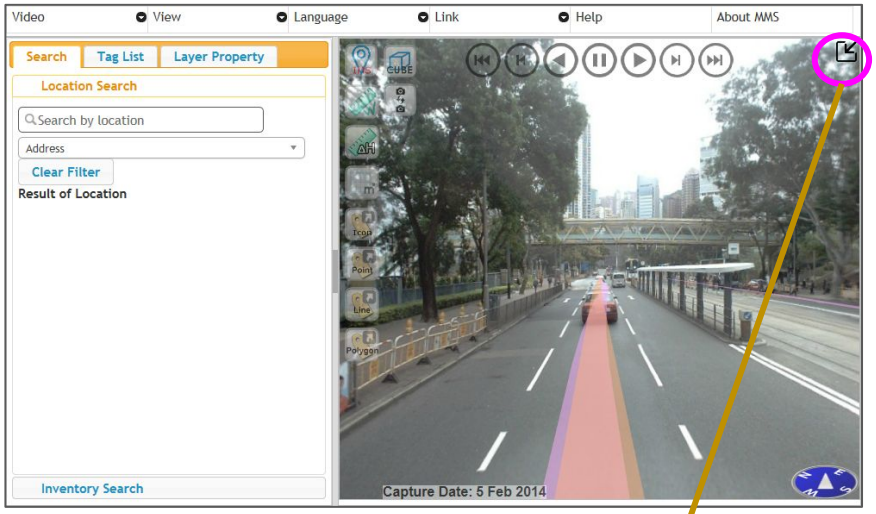
Tag property dialog

Max/Min Layout Button

- Max/Min layout button is on the top right of the movie window.
  - Click the button to set the movie window maximized or minimized.

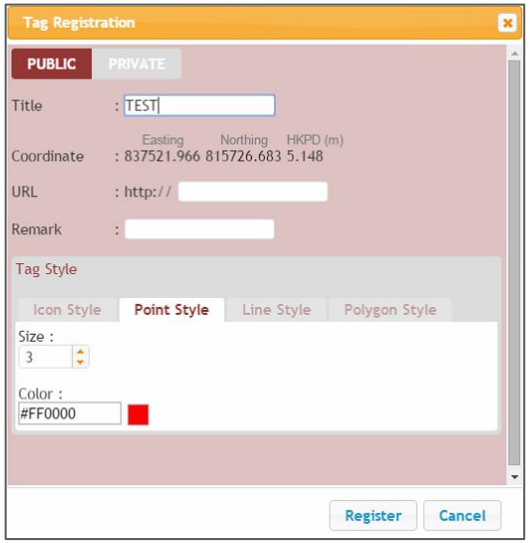


Click to maximize movie window



Click to Minimize movie window

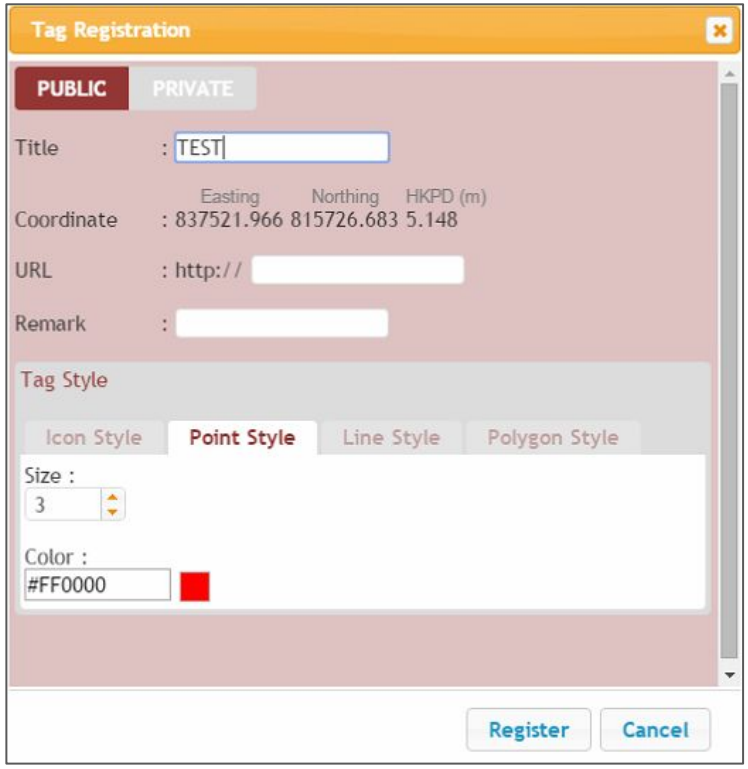
Tag Registeration Dialog



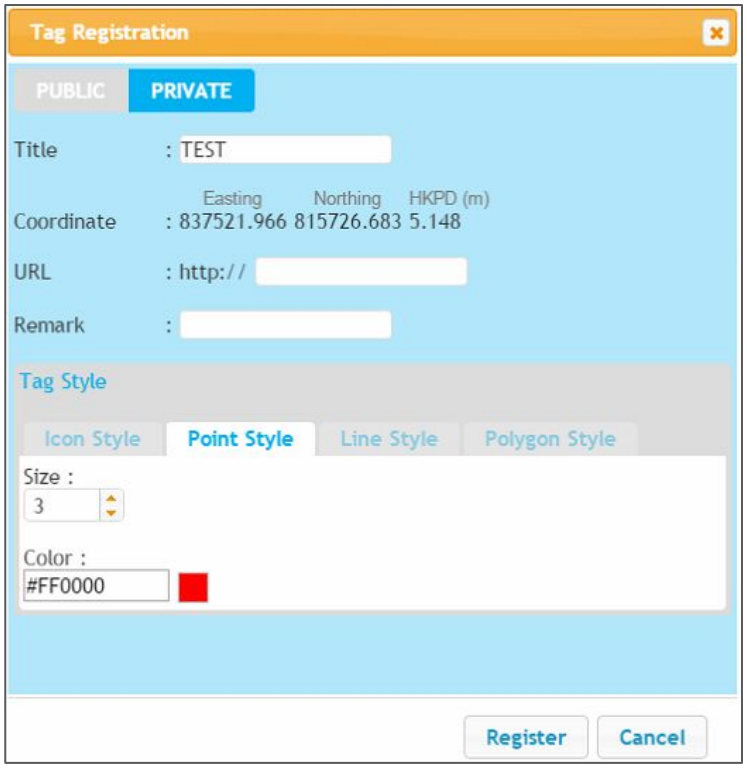
- Tag Type
  - PUBLIC -- with brown background register public tag.
  - PRIVATE-- with blue background register private tag.
- Title -- set title name of current tag.
- Coordinate -- show coordinate of current tag.
- URL -- set URL which can be clicked to link in tag property dialog.
- Remark -- set note to current tag.
- Tag Style -- can not be changed in this dialog, it should through different tag register widgets.
  - Icon Style
  - Point Style
  - Line Style
  - Polygon Style
- Register Success
  - Success notification will be shown in right top of the movie window

Tag Type

- PUBLIC -- with brown background register public tag.
  - Visible to everyone in the system.
- PRIVATE-- with blue background register private tag.
  - Visible to only a specific browser session.



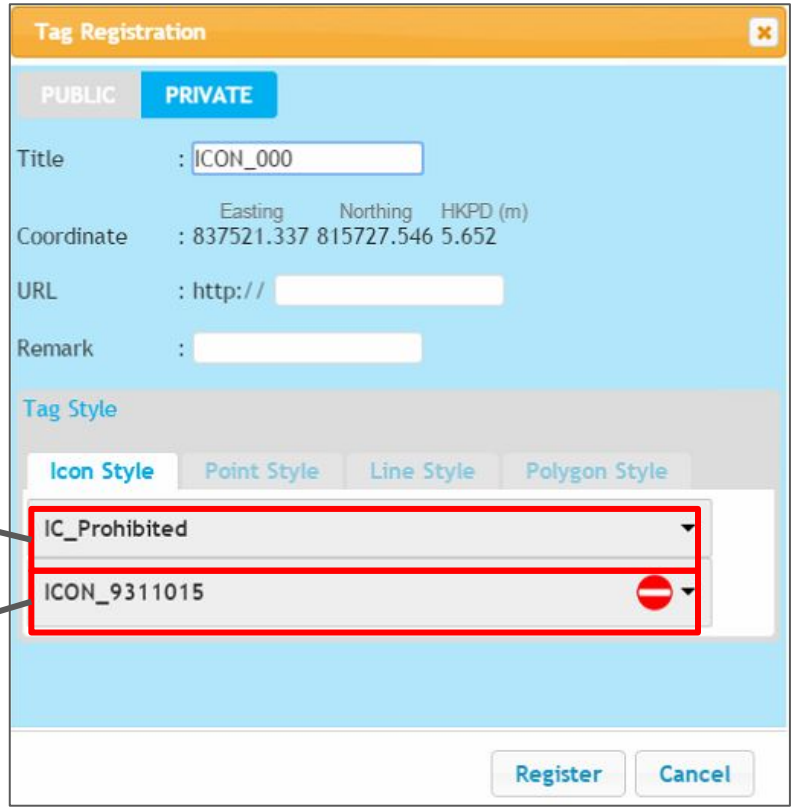
Tag registeration dialog with public tag type



Tag registeration dialog with private tag type

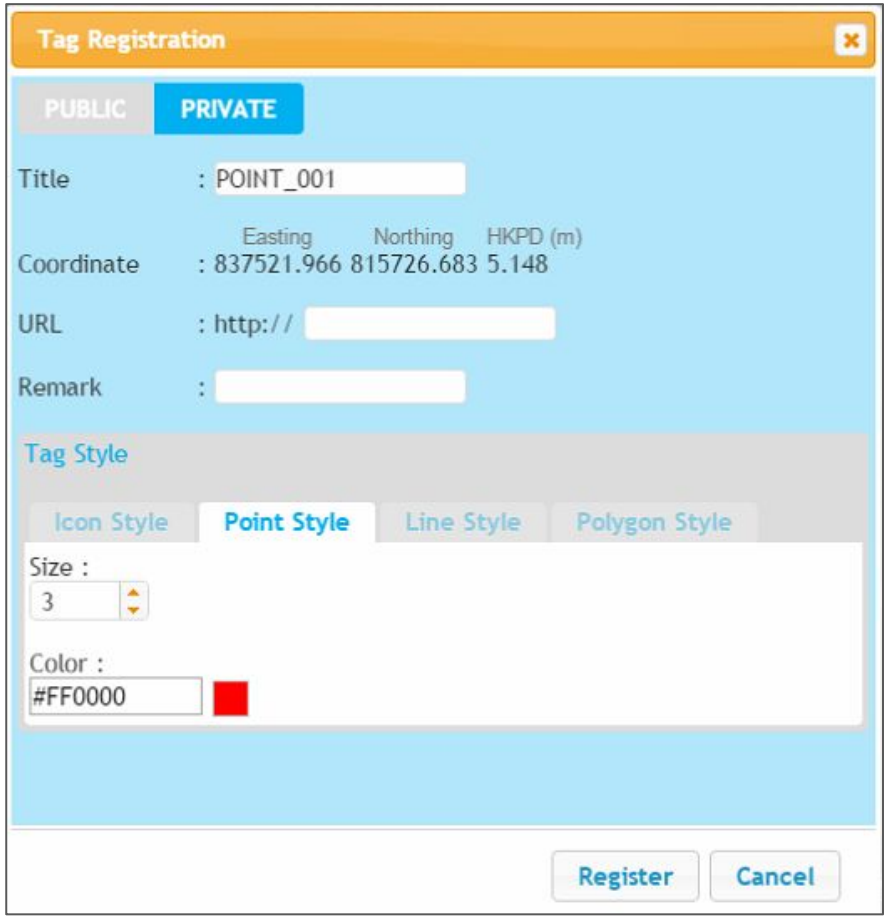
Tag Registeration Dialog

- Title -- set title name of current tag.
- Coordinate -- show coordinate of current tag.
- URL -- set URL which can be clicked to link in tag property dialog.
- Remark -- set note to current tag.
- Tag Style -- can not be changed in this dialog, it should through different tag register widgets.
  - Icon Style
    - Icon Category
    - Icon



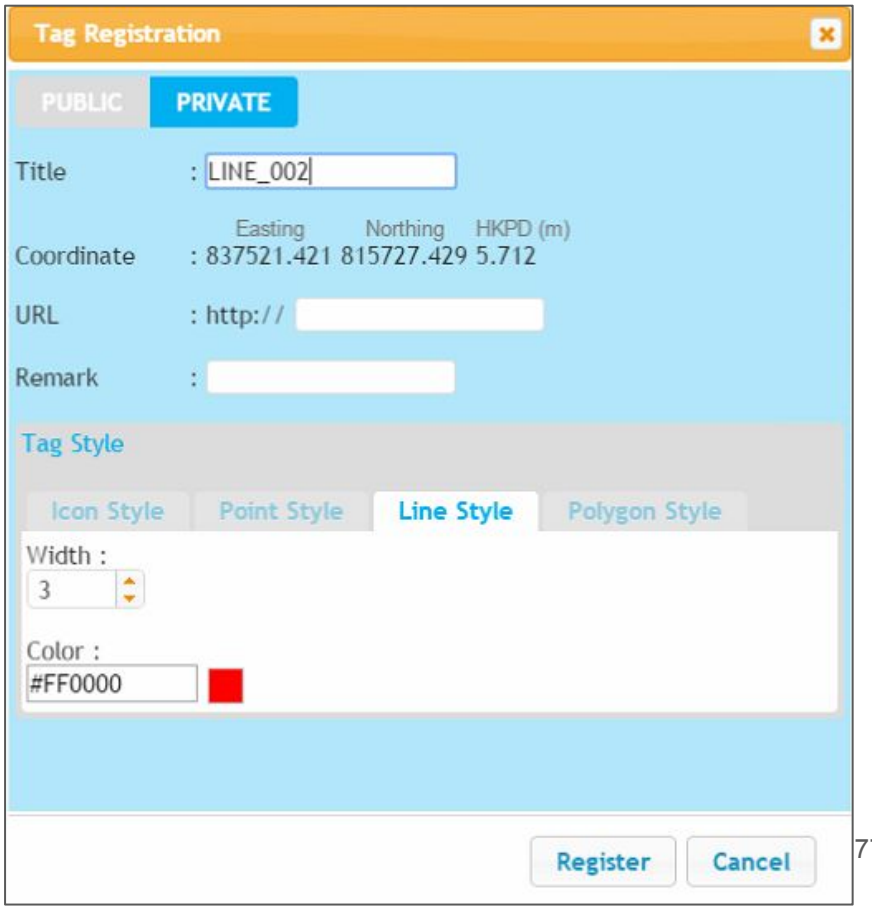
Point Style

- Size -- set point size
- Color -- set point color



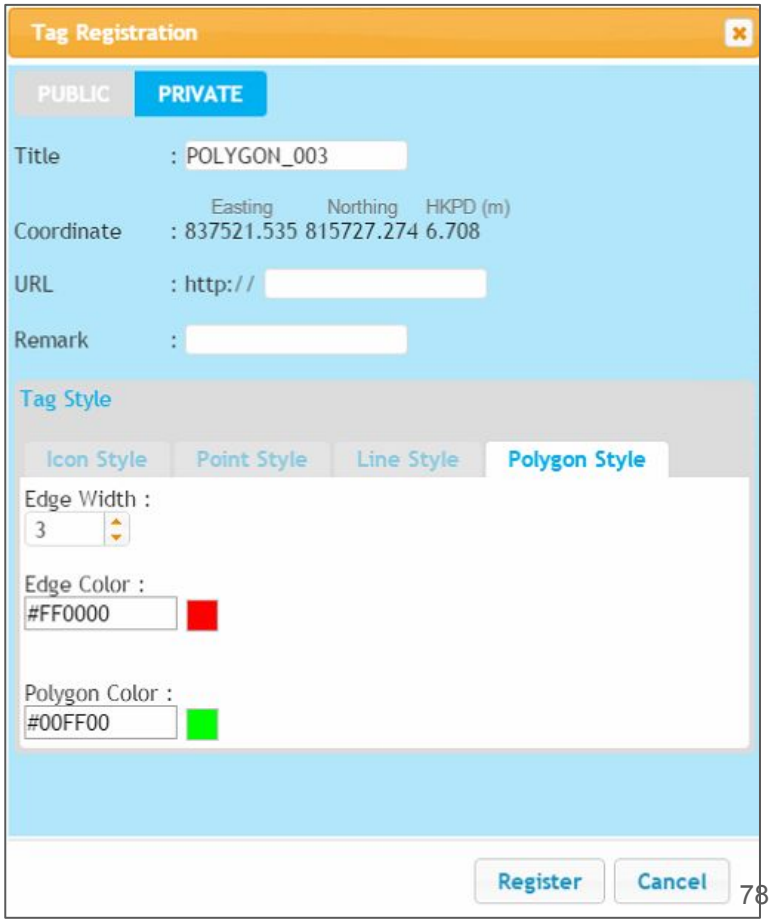
Line Style

- Width-- set line width
- Color -- set line color



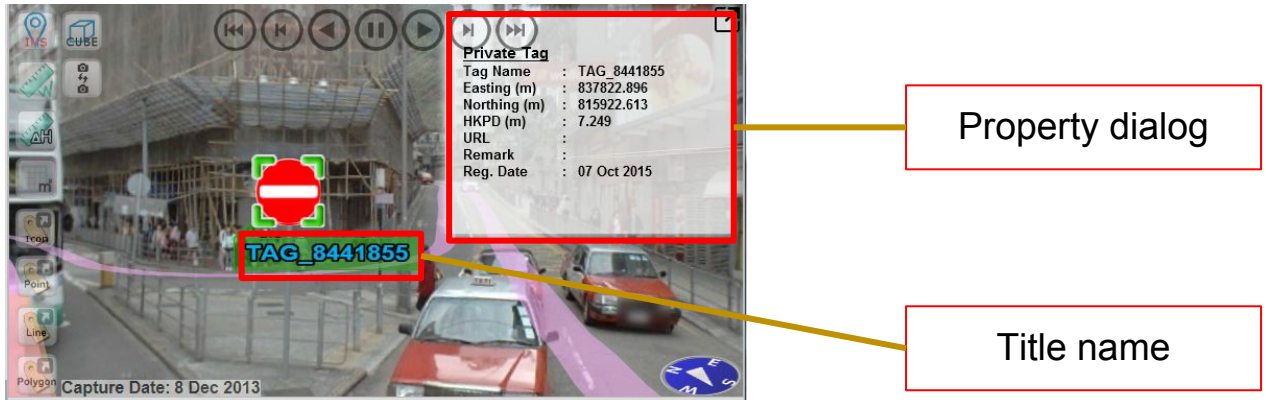
Polygon Style

- Edge Width-- set edge width
- Edge Color -- set edge color
- Polygon Color -- set polygon color



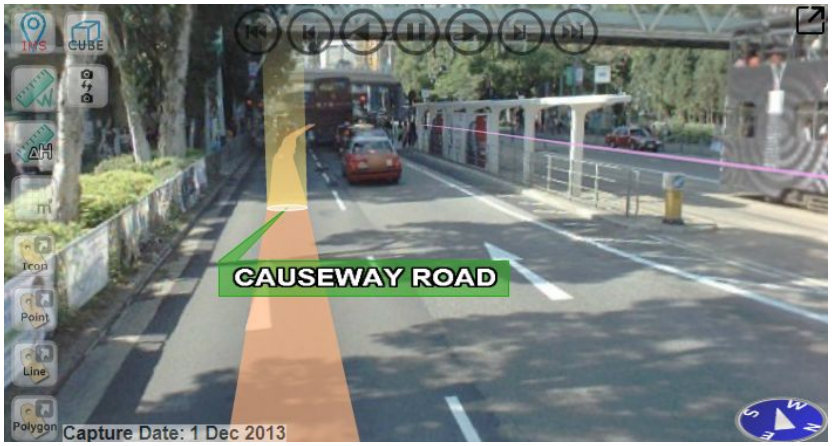
Tag

- Select a tag
  - Title name will be shown.
  - Property dialog will be shown on the right top movie window.
  - Movie window will focus to selected tag.
  - Identity dialog will be shown on map window.
  - Please refer to “Tag Selection Synchronization” section for more details behavior when clicking at the tag.

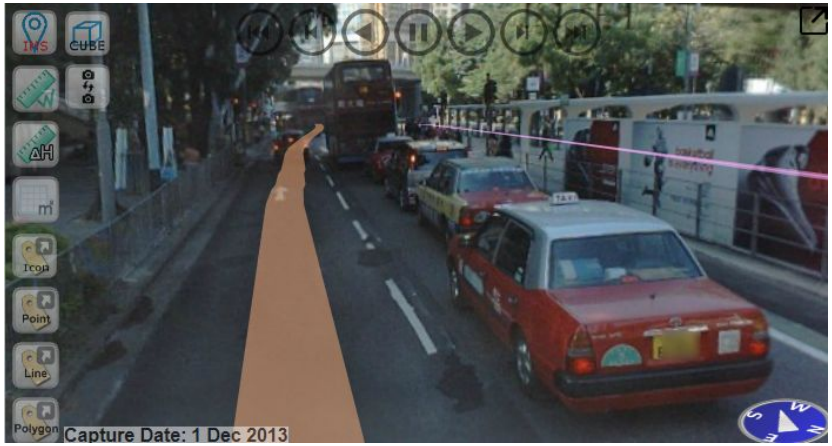


Movie Path

- Show the shooting data.
- Click movie path to jump to nearest location.
- Current path is orange while others are pink.
- Movie path name will be shown by mouse over.



Preview position

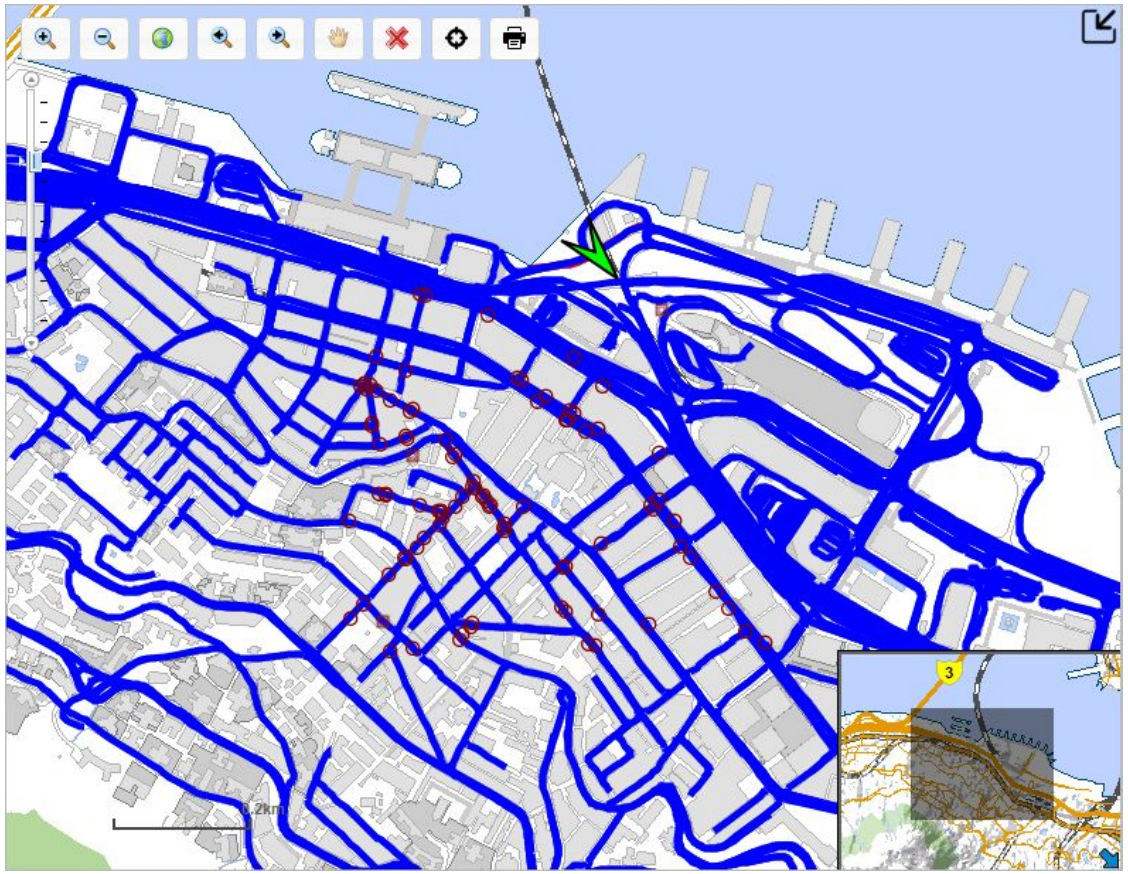


Position after jumping

Section 7
MAP WINDOW

Map Window

- Navigation Tool Bar
- Zoom Bar
- Scale Bar
- Overview Map
- Max/Min Layout Button
- Tag
- Tag Identity Dialog
- Movie Path

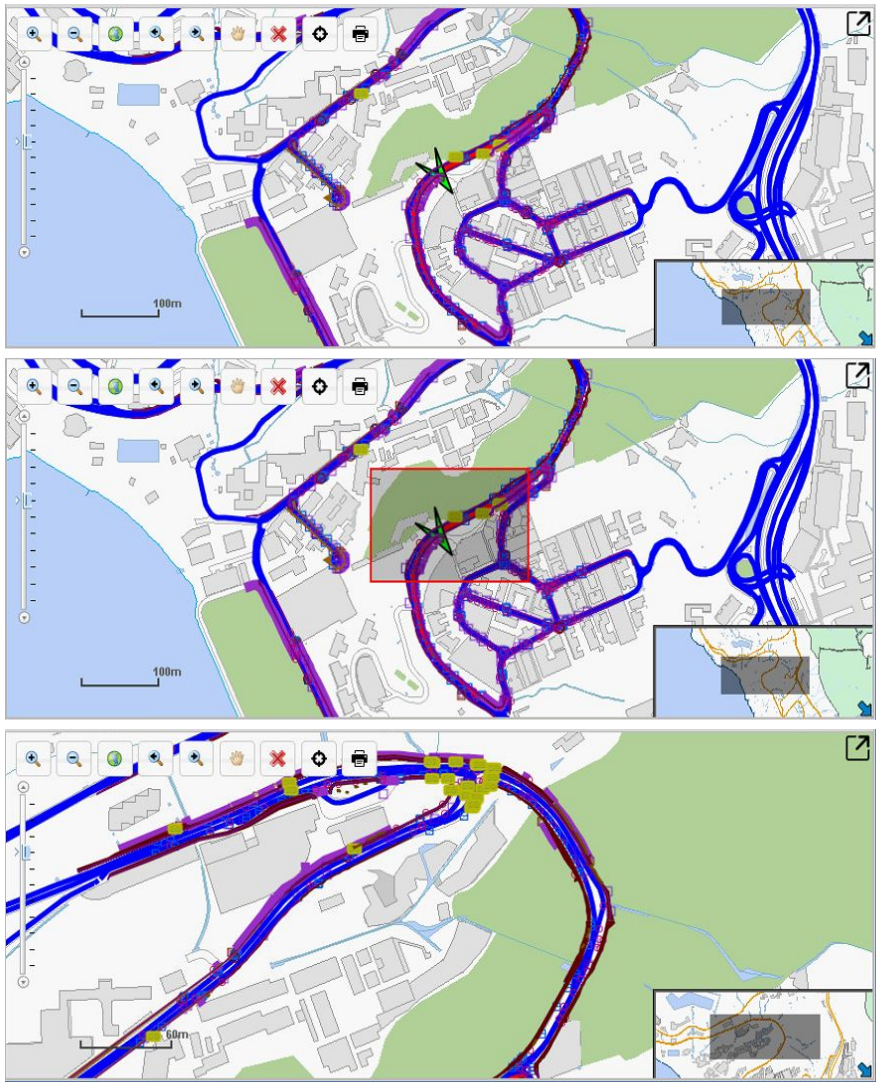


Navigation Tool Bar

1. Zoom In Mode
2. Zoom Out Mode
3. Show Full Map
4. Previous Map State
5. Next Map State
6. Pan
7. Deactivate
8. Pan to camera location
9. Print map

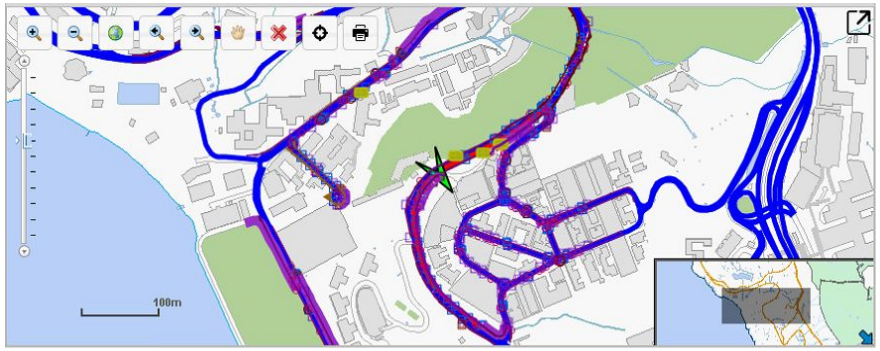
Zoom In Mode

- Click the button to enter zoom in mode
- Drag a mouse to select zoom in region
  - Shown in red.
- Release a dragged-mouse
  - Map will zoom in until either width/height of the selected box fit the extent of the map, regardless of the zoom level.



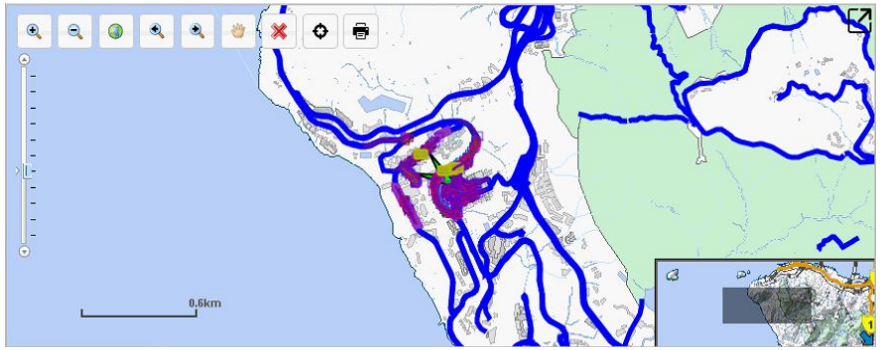
Zoom Out Mode

- Click the button to enter zoom out mode



- Drag a mouse to select zoom out region
  - Shown in red.

- Release a dragged-mouse
  - Map will zoom out until the center of the selected box is the center of the map extent, regardless of the zoom level.

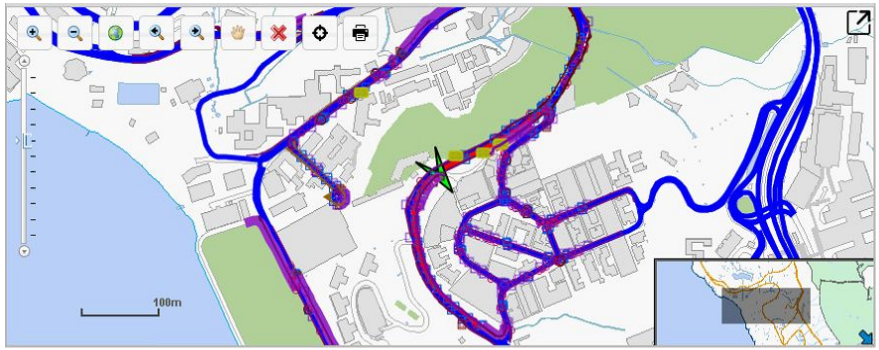


Exit Zoom Mode

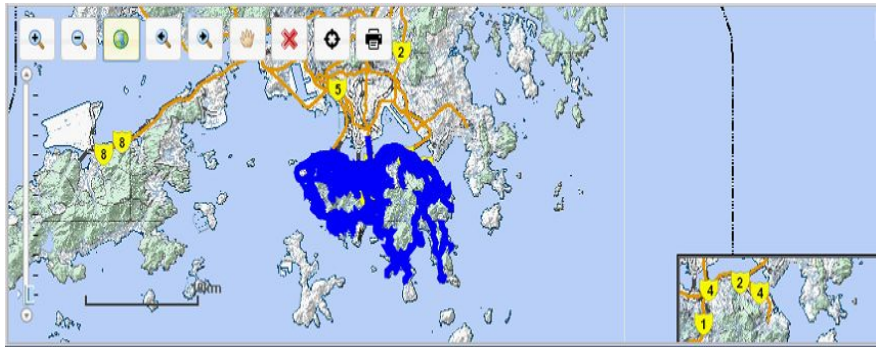
- Enter either Zoom-in or Zoom-out mode.
- Click on [Exit Zoom Mode] button
- Drag mouse in the map
  - Confirm that this result in the panning of the map (rather then drawing a red zoom box and zoom).

Show Full Map

- Initial state



- Click on [show full map] icon
  - Map will zoom so that the full map is displayed in map extent, regardless of the zoom level.



Previous and Next Map State

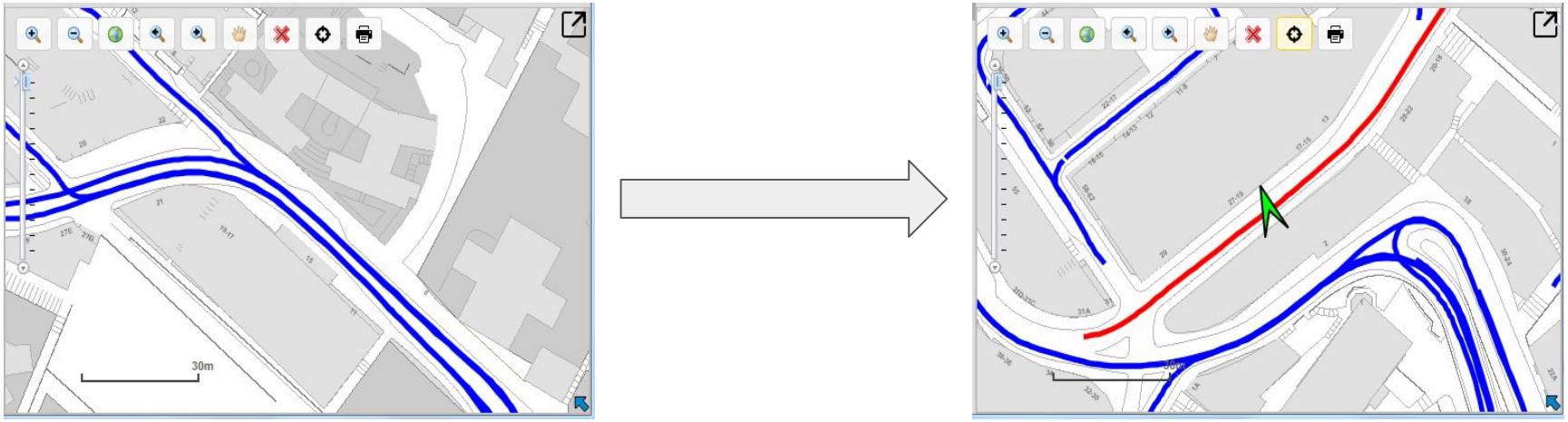
- Previous map state: Back to previous map view (zoom level and location).
- Next map state: Goes to next map state (zoom level and location) if existed.

Pan

- Click on [Pan] button
- Drag mouse in the map
  - Confirm that this result in the panning of the map.

Pan to Camera Location

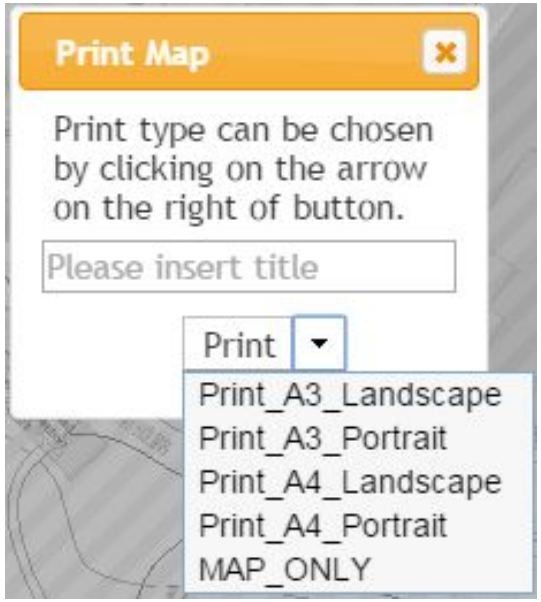
- When the location in movie window is not in the extent of the map (no red trajectory, or green camera mark), click on [Pan to Camera Location] button
- Confirm that the red trajectory is shown, and green camera mark is at the center of the map extent.



Click pan to camera location to change the map to center at a current camera location

Print Map

- Print Map: A function to print a map with title, scale bar, map distance unit, inventories and their legends.
  - Title of the print document can be set in the dialog shown. If nothing is provide, ‘Hong Kong HYD’ will be used.
  - Output format : pdf



- Five layout format can be chosen as listed below.
  - Print_A3_Landscape
  - Print_A3_Portrait
  - Print_A4_Landscape
  - Print_A4_Portrait
  - MAP_ONLY

Print Map Layers

- In general, the inventory and MMS layer will be printed, if they can be seen on the map (visibility on, and a scale is zoomed to a certain level).
  - A legend of inventory layers that is displayed in the output document will be printred accordingly.
  - A legend of a public/private tag layer, and also MMS layer will not be shown.

- As an exception, a graphic (geometry) which is drawn due to the Location Search result is selected, will not be printed.

Zoom Bar and Scale Bar

- Zoom bar.
  - Click button to zoom in
  - Click button to zoom out
  - Drag slider to change zoom level

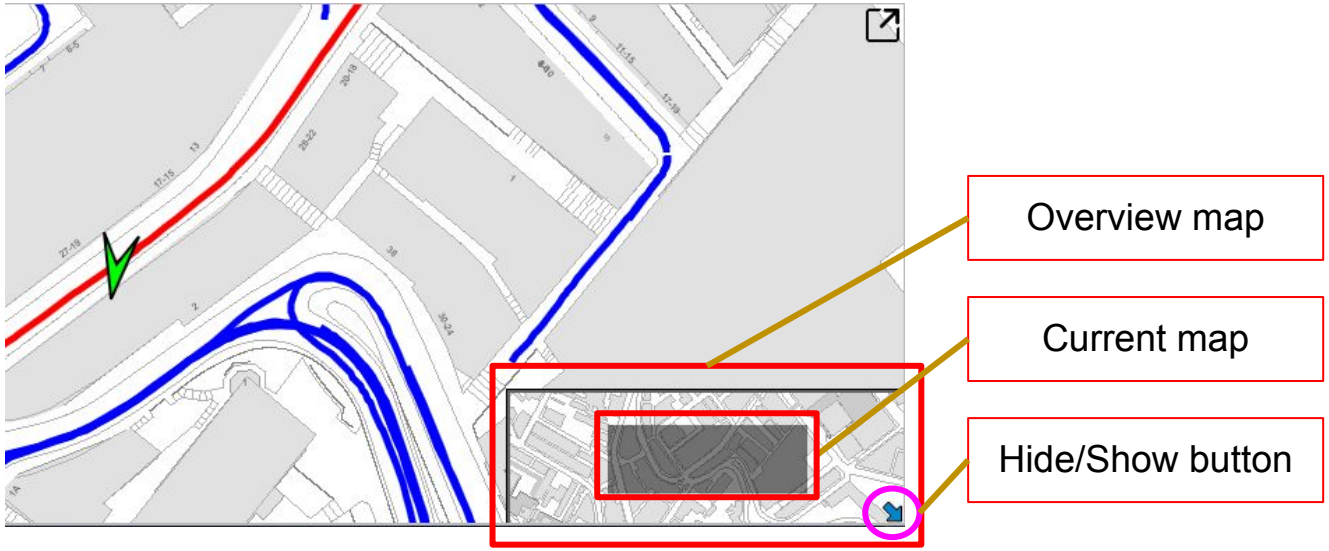
Level 12

Level 1

- Scale bar
  - Mouse over to show current scale

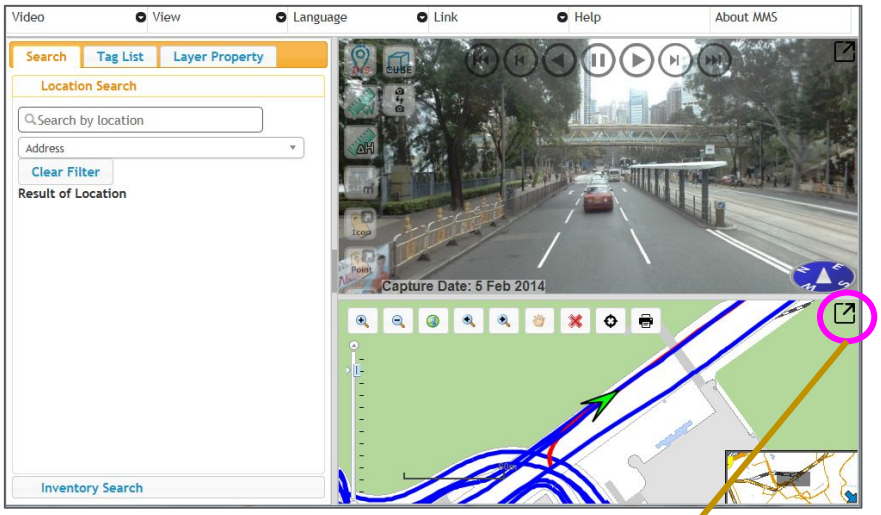
Overview Map

- Overview map widget: displays the current extent of the map within the context of a larger area in right bottom of the map window.
  - Update when map extent or map window size changes.
  - The extent of current map is represented in the overview map area as a rectangle
  - The extent rectangle can be dragged to modify the extent of the map.
  - Overview map can be hided/show by clicking the blue arraw right bottom of overview map.

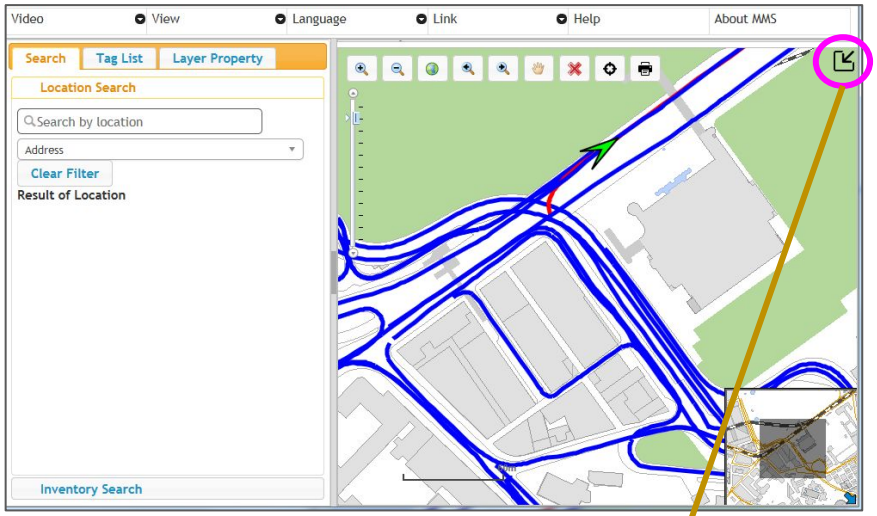


Max/Min Layout Button

- Max/Min layout button is on the top right of the map window.
  - Click the button to set the map window maximized or minimized.



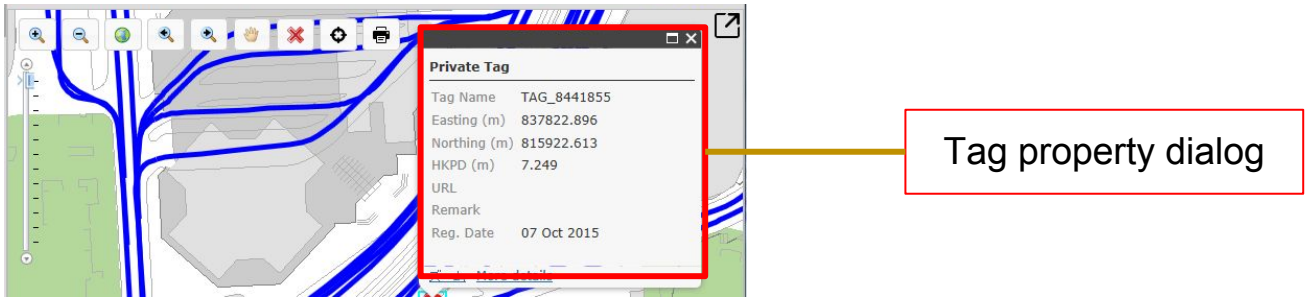
Click to maximize map window



Click to Minimize map window

Tag

- Click a tag on a map window to show the tag property dialog
- Double click tag to jump to nearest movie path when current tag is out of movie window range
- Please refer to “Tag Selection Synchronization” section for more details behavior when clicking at the tag.



Tag Identity Dialog

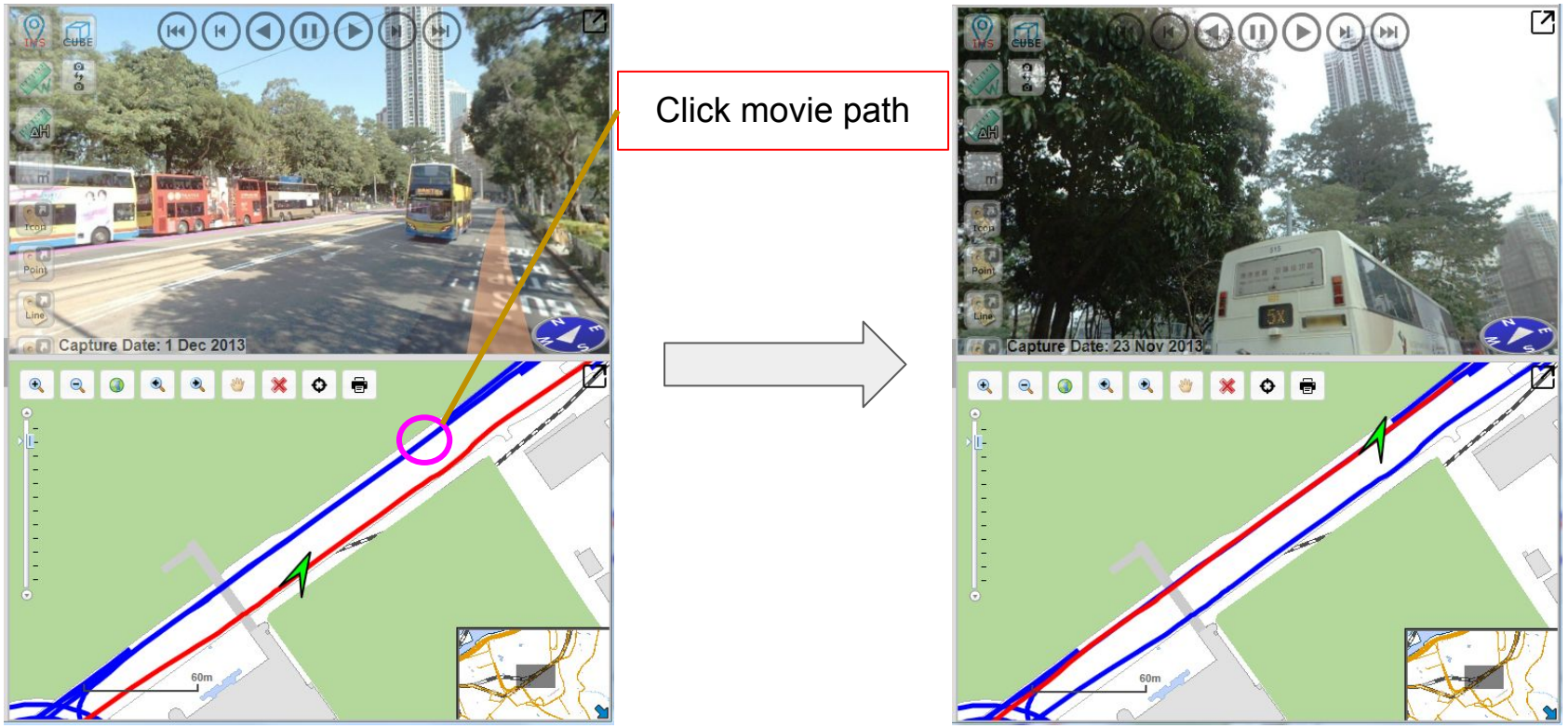
- The tag identity dialog in map window shows the information (same as shown in movie window) of seleceted tag.
  - Shows tag type, tag name, location, HKPD, URL, remark and register date.
  - Can zoom to max zoom level.
  - Can open “Identify Window” to show more details.
  - Tag identity dialog will show when tag in the display range (can be set in layer property setting).

Tag Identity Window

- Identify Window
  - Shows more details (e.g. “OBJECTID”)

Movie Path on Map Window

- Show current movie path
  - Current movie path is red
  - Others are blue
- Click movie path to jump to nearest place (both map and movie windows)



Section 8
COOKIE SETTING

Save Layout Setting

- The cookie can save current Map-Movie window layout as shown in the table below.

Before Closed		After Restart	
Map Window Location	**Movie Window Location**	**Map Window Location**	**Movie Window Location**
Down	Up	Down	Up
Up	Down	Up	Down
Left	Right	Left	Right
Right	Left	Right	Left
Full Screen	Hide	Full Screen	Hide
Hide	Full Screen	Hide	Full Screen

Save Video Setting

- The cookie can save current video play resolution and view form(Front-Rear View/360° View) setting.

Before Closed		After Restart	
Resolution	**View Form**	**Resolution**	**View Form**
High	Front-Rear	High	Front-Rear
High	360° View	High	360° View
Low	Front-Rear	Low	Front-Rear
Low	360° View	Low	360° View

Save Language Setting

- The cookie can save current language.

Language Before Closed	Language After Restart
English	English
Chinese	Chinese

Save Property Layer Setting

- The cookie can save current range of a movie/map window.

Before Closed		After Restart	
Movie Window Range	**Map Window Range**	**Movie Window Range**	**Map Window Range**
20	200	20	200
35	600	35	600
90	450	90	450

Save Property Layer Setting

- The cookie can save a visibility of Inventory/Tag/MMS layers.

Section 9
Page Initialization

Set Initial Location in HK Coordinate System

- Initial location can be set by adding location information behind the website URL in HK coordinate system.
  - Add X, Y coordinate to website URL.
    - e.g. http://hydmmssur2/mms/main.html?hkg_x=837276.278&hkg_y=816101.321

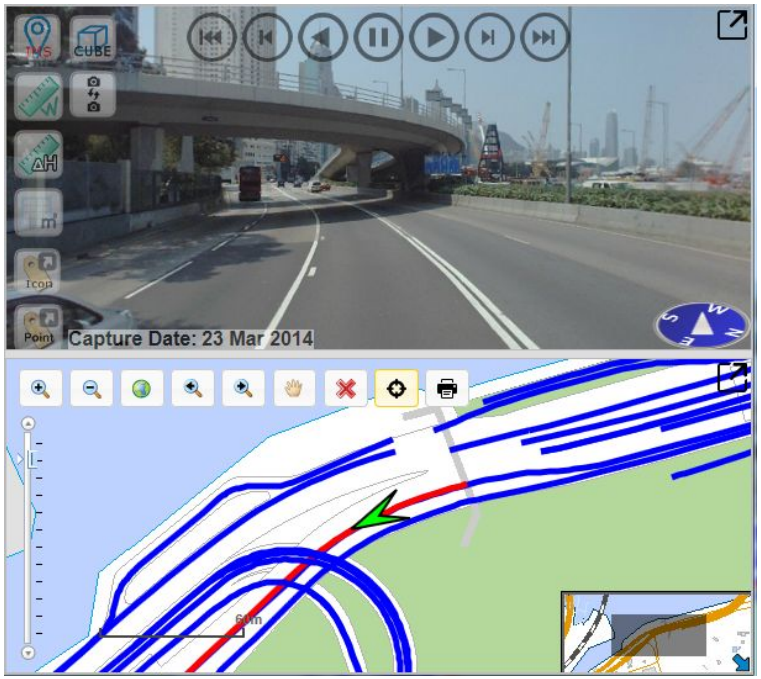
Default initial location

Initial location after setting X, Ycoordinate

Set Initial Location using Latitude/Longitude

- Initial location can be set by adding location information behind the website URL in Lat/Lng coordinate system.
  - Add latitude, longitude coordinate to website URL.
    - http://hydmmssur2/mms/main.html?lat=22.283762&lng=114.186068

Default initial location



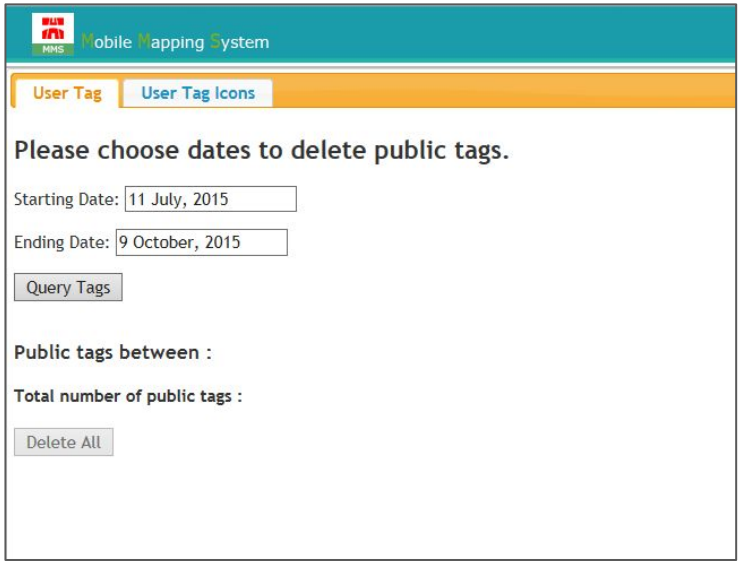
Initial location after setting latitude, longitude coordinate

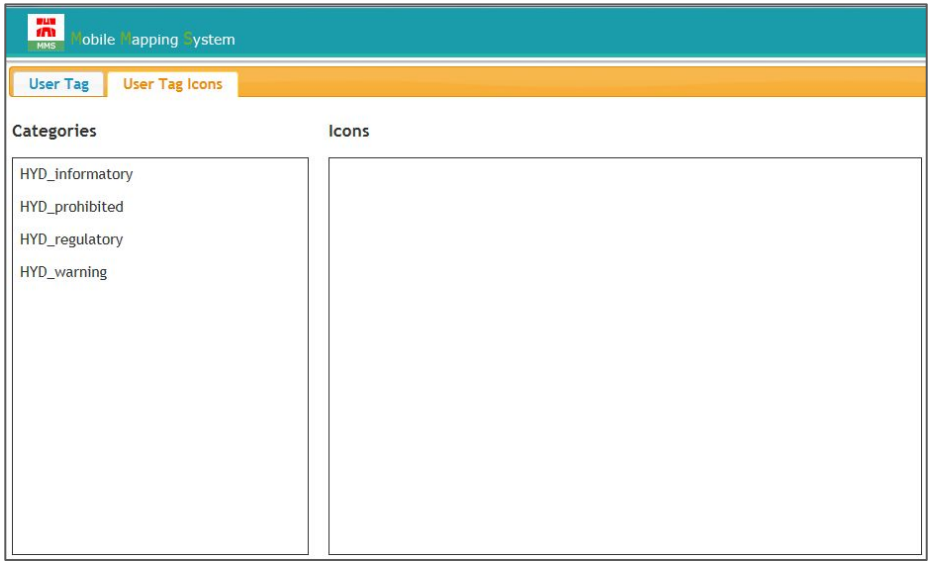
Section 10
ADMIN PAGE

User Tag and User Tag Icons

- User Tag
  - Starting Date
  - Ending Date
  - Query Tags
  - Delete All

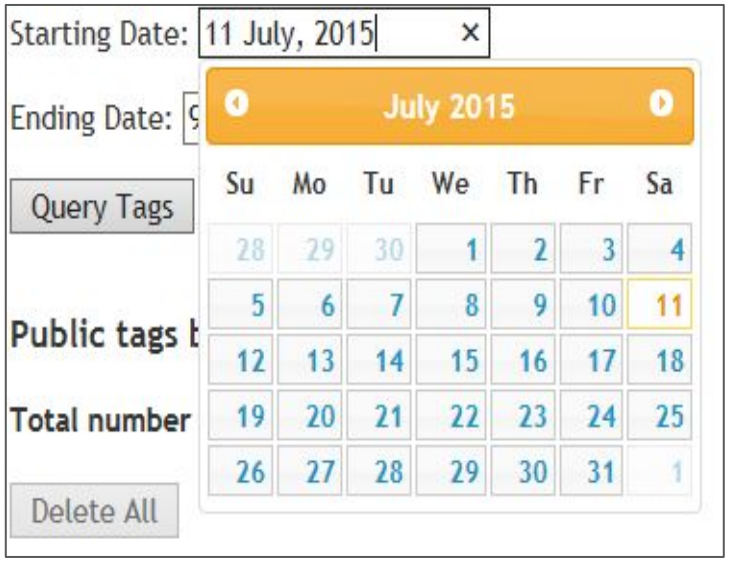
- User Tag Icons
  - Category
  - Icons

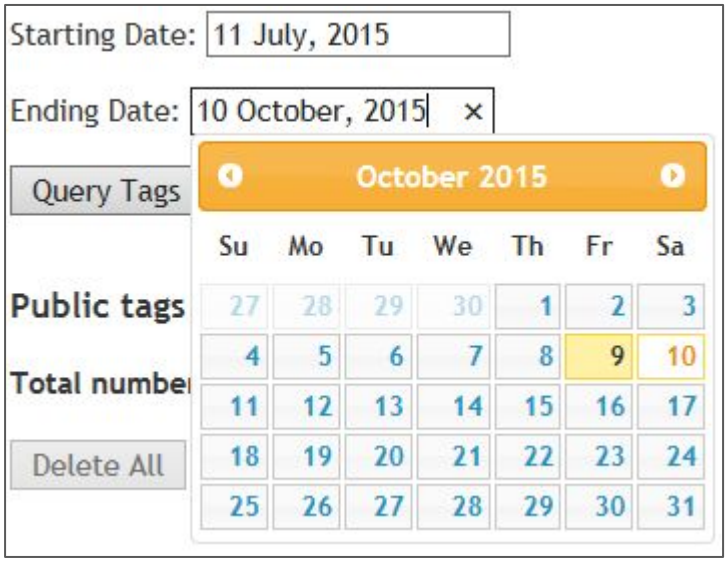




User Tag

- Starting Date
  - Select starting date of tag registered
- Ending Date
  - Select ending date of tag registered


Starting Date: 11 July, 2015
Ending Date:
Query Tags
Public tags
Total number
Delete All
July 2015
Su Mo Tu We Th Fr Sa
28 29 30 1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31 1


Starting Date: 11 July, 2015
Ending Date: 10 October, 2015
Query Tags
Public tags
Total numbe
Delete All
October 2015
Su Mo Tu We Th Fr Sa
27 28 29 30 1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

User Tag

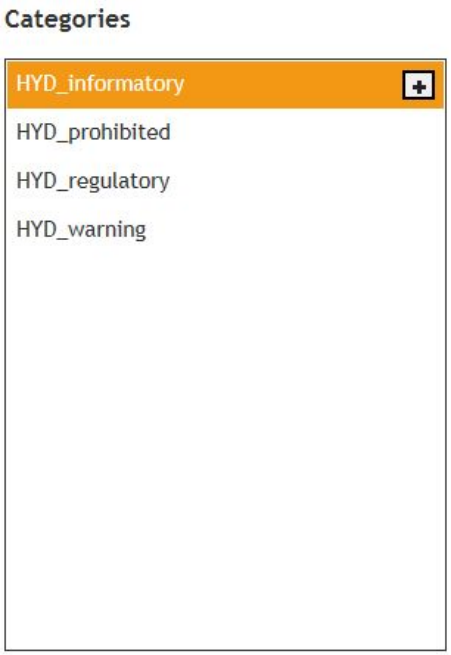
- Query Tags
  - Click “Query Tags” button to query all public tags between selected query date
- Delete All
  - Click “Delete All” button to delete all public tags queried by selected query date

Please choose dates to delete public tags.
Starting Date: 11 July, 2015
Ending Date: 10 October, 2015
Query Tags
Public tags between : Sat Jul 11 2015 and Sat Oct 10 2015
Total number of public tags : 24
Delete All

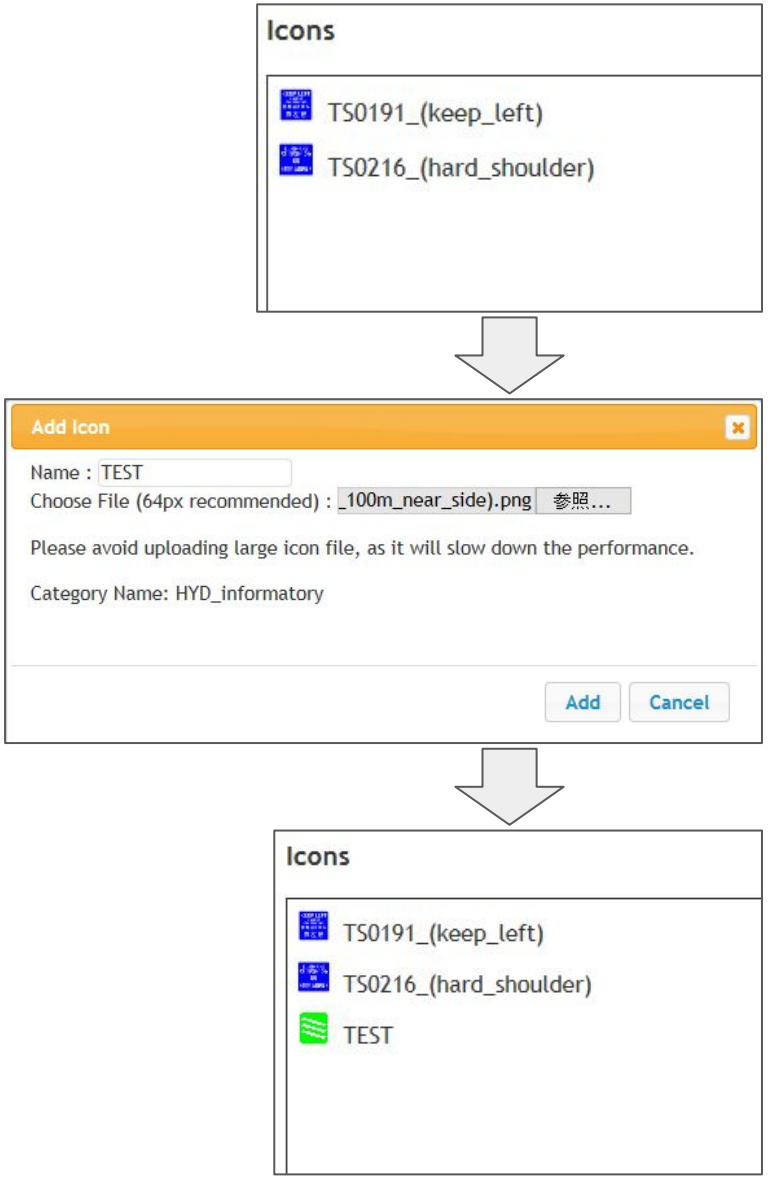
Please choose dates to delete public tags.
Starting Date: 11 July, 2015
Ending Date: 10 October, 2015
Query Tags
Public tags between : Sat Jul 11 2015 and Sat Oct 10 2015
Total number of public tags : 24
Delete All
Complete!
Summary
Total Number of Tags: 24
Successfully Deleted : 24
Unsuccessfuly Deleted : 0
Close

User Tag Icons

- Category
  - Show tag categories
  - Can add new tag kind



Show tag categories



Section 11
APPENDIX

List and Selections

- Selection on the list and the clicking event.
  - Once any item on the result list is selected, it will not received any event (click/double-click) from the user.

- The list includes the followings :
  - A result list of location search
  - A result list of inventory search
  - A list of public tag
  - A list of private tag

Non Case Sensitive

- Text in all the search functionalities is non CASE-SENSITIVE; meaning :
  - “TEST” and “test” are treated the same.